STEREO INTEGRATED AMPLIFIER/TUNER

C-V301/V351

SERVICE MANUAL

KENWOOD

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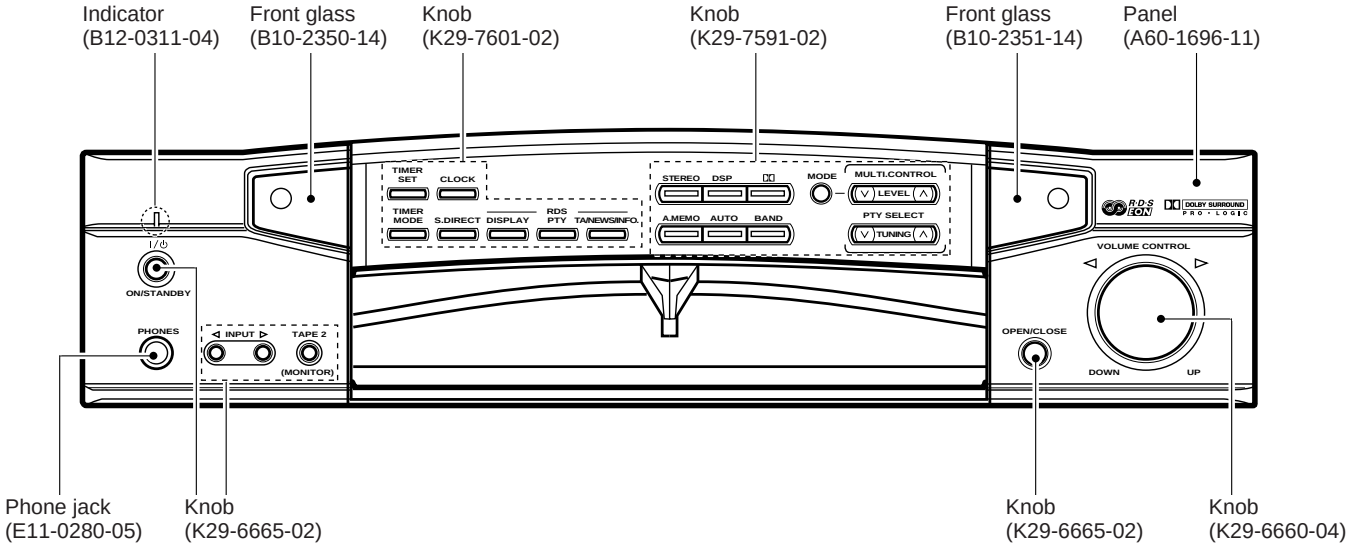
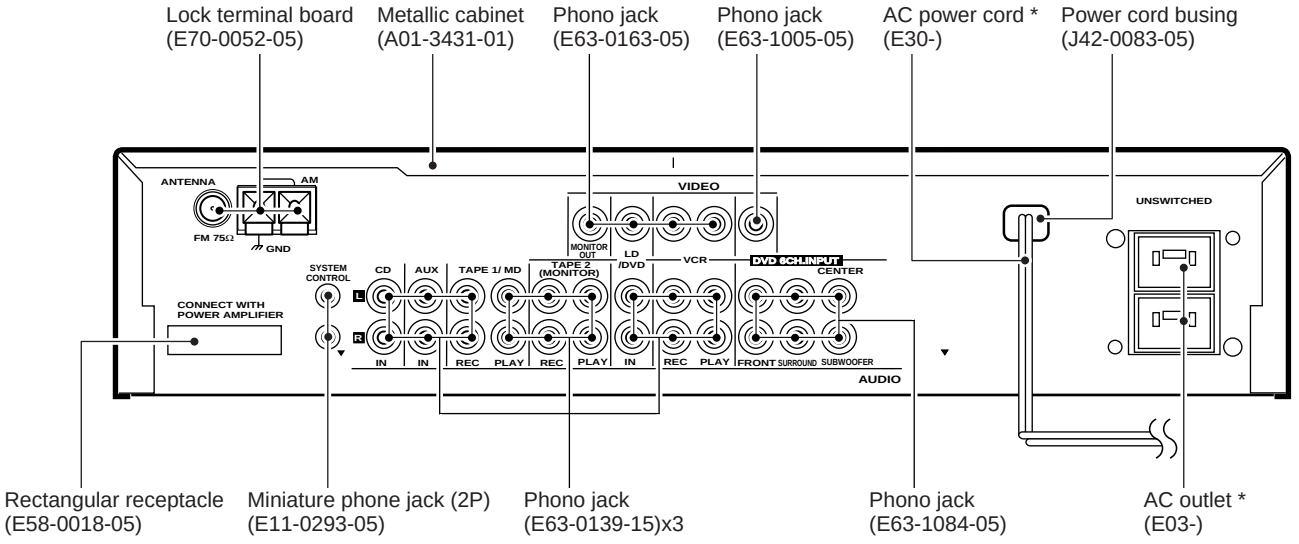




*** Refer to parts list on page 25.**

Caution : No connection of ground line if disassemble the unit.
Please connect the ground line on rear panel, PCBs, Chassis and some others.

70%

C-V301/V351

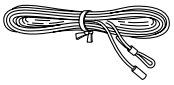
CONTENTS / ACCESSORIES / CAUTIONS

Contents

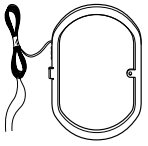
CONTENTS / ACCESSORIES / CAUTIONS 2
DISASSEMBLY FOR REPAIR 3
ADJUSTMENT 4
PC BOARD 5
SCHEMATIC DIAGRAM 11
EXPLODED VIEW 24
PARTS LIST 25
SPECIFICATIONS ..... Back cover

Accessories

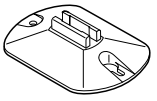
FM indoor antenna (1)
(T90-0841-05)



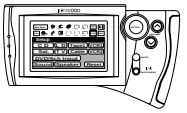
AM loop antenna (1) (T90-0833-05)



Loop antenna stand (1)



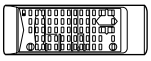
Graphical Remote Control unit (1)
(C-V351)
(A70-1205-15)



Battery cover
(A09-1115-08)

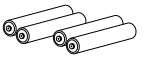
(Optional with the C-V301)

Remote control unit (1)
(C-V301)
(A70-1306-05)

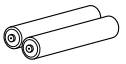


Battery cover (A09-0378-08)

Batteries(R6/AA) (4)
(C-V351)



Batteries(R6/AA) (2)
(C-V301)



Cautions

How to reset the microcomputer

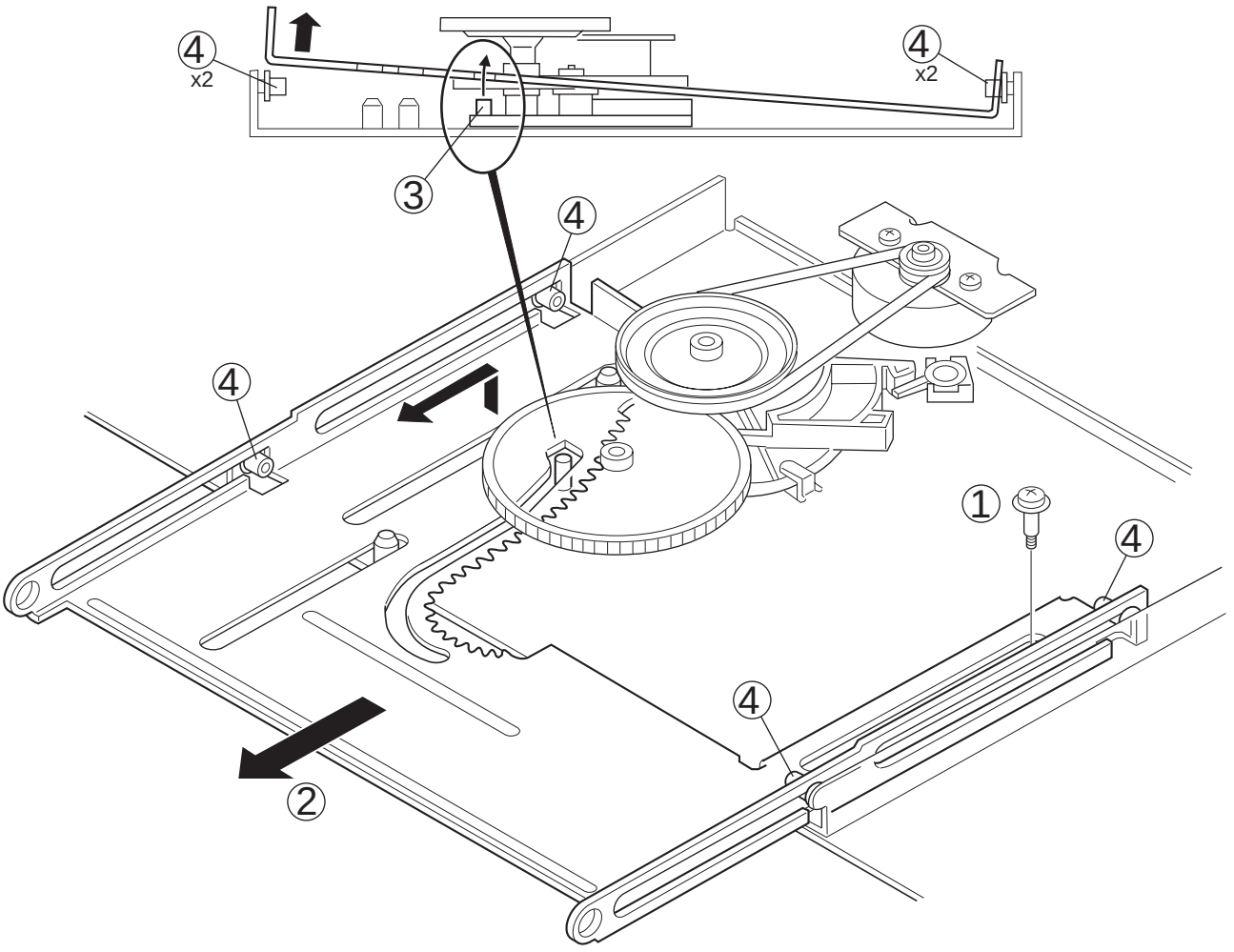
The microcomputer may malfunction (impossibility of operation, erroneous display, etc.) when the power cord is unplugged and plugged in again while the unit is in ON mode with the I/⏻ key pressed or due to other external causes. In this case, execute the procedure on the right to reset the microcomputer and return the unit to the normal condition.

① Unplug the power cord from the wall outlet.
② While holding the I/⏻ (ON/STANDBY) key depressed, plug the power cord into the wall outlet again.

- Resetting the microcomputer clears the memory you entered and returns it to the initial condition when the unit left the factory.

DISASSEMBLY FOR REPAIR

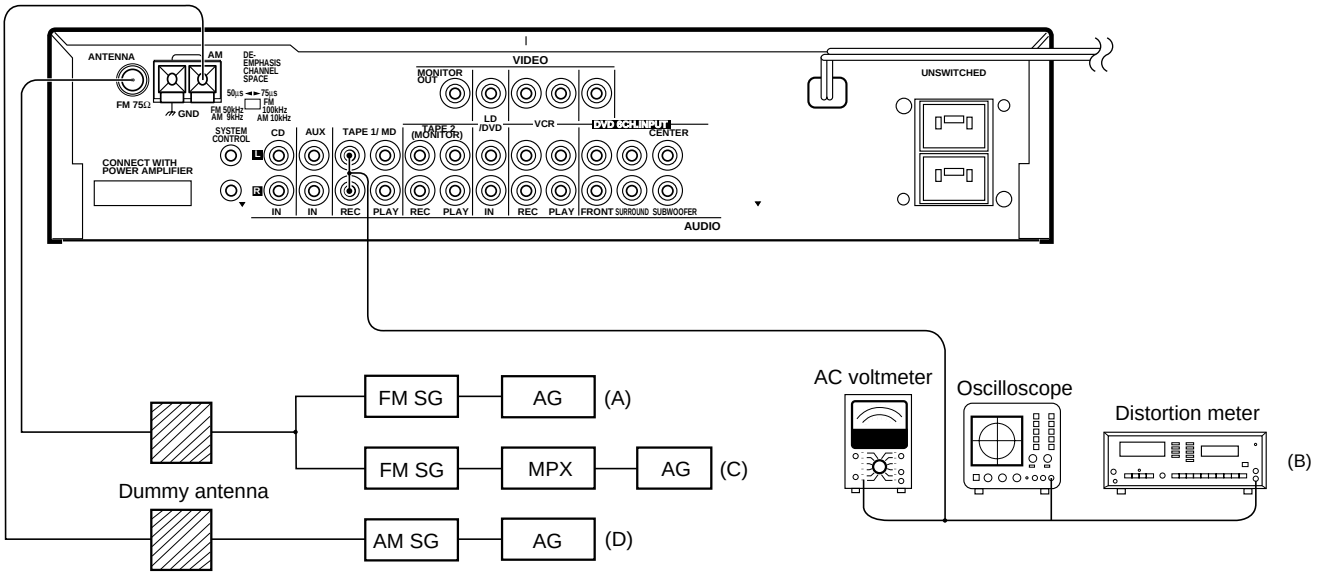
1. Remove the 1 screw (①), Then pull the slider (②) till last
2. While raise the slider of left side, remove the slider from the bosses (③,④)



ADJUSTMENT

No.	ITEM	INPUT SETTING	OUTPUT SELECTOR	TUNER/AMP SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
SELECTOR : FM							
1	DISCRIMINATOR L31◄-►L32 (E, T only)	(A) 98.0MHz 1kHz, ±40kHz dev (E, T type) 60dBu (ANT INPUT)	Connect a DC voltmeter between port of CN2	AUTO 98.0MHz	L31 (X05-)	0V	(a)
			(B)		L32 (X05-)	Minimum distortion	
2	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev pilot: ±6kHz dev 60dBu (ANT INPUT)	(B)	AUTO (98.0MHz)	IFT (W02-)	Mininum distortion	(a)

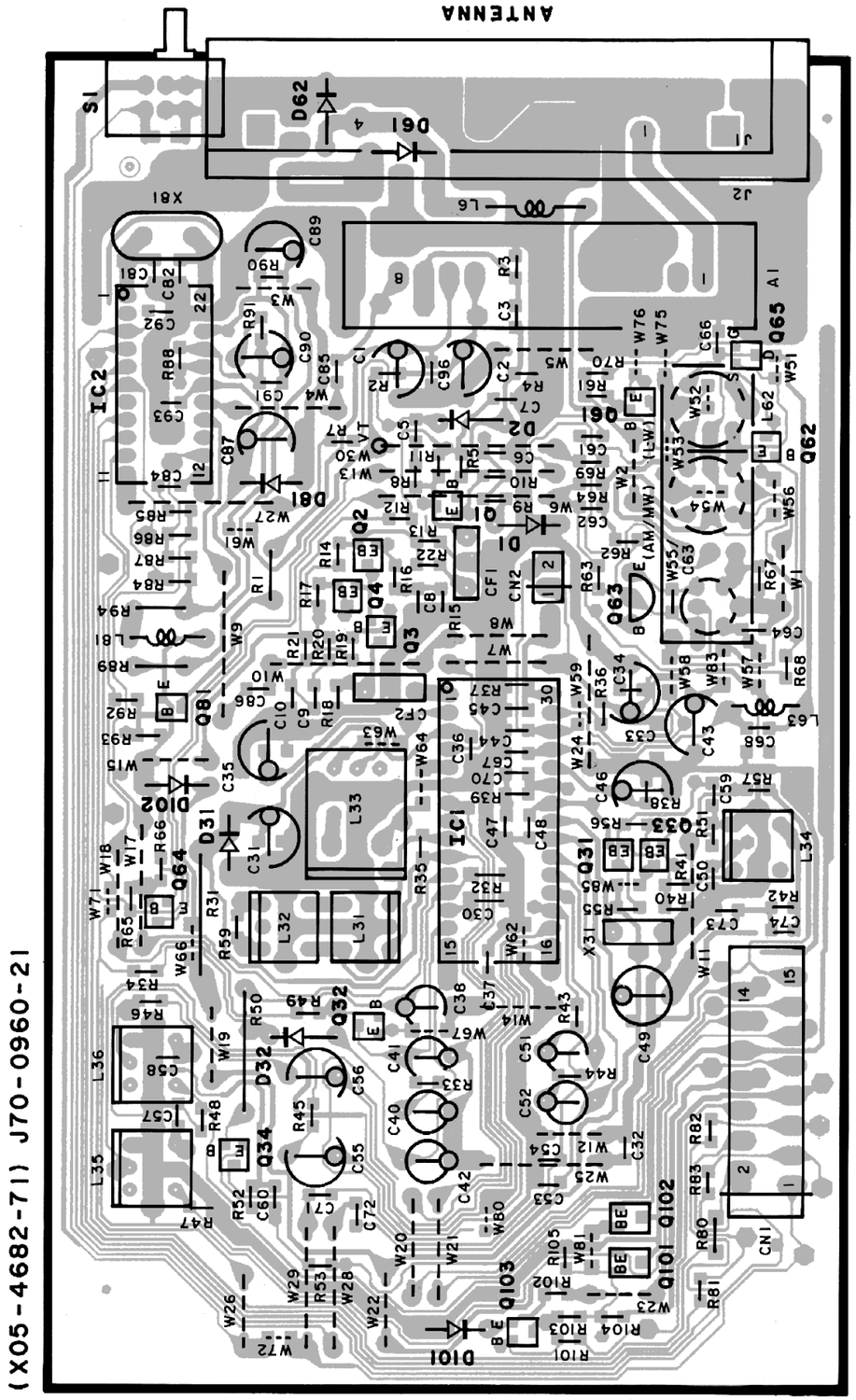
(a)



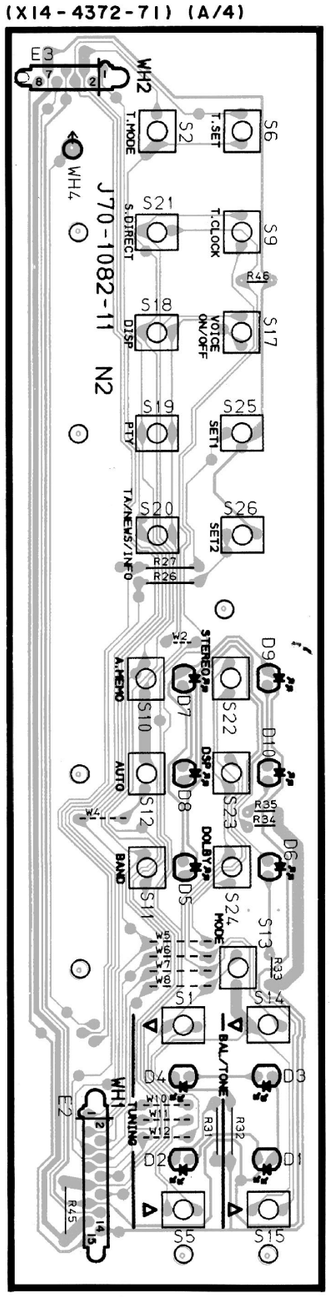
ERROR MESSAGE

DISPLAY	DESCRIPTION
ERR 1	Main u-com sub clock no output
ERR 2	Main u-com sub clock frequency NG

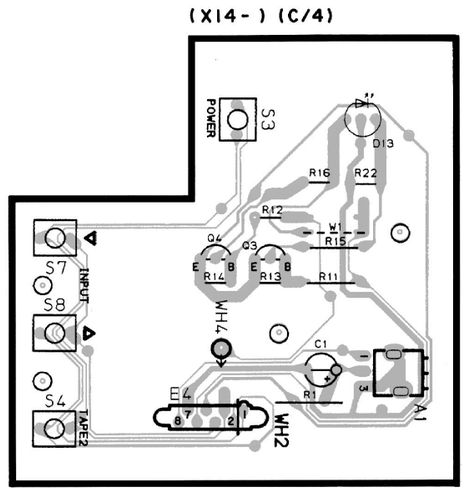
PC BOARD (Component side view)



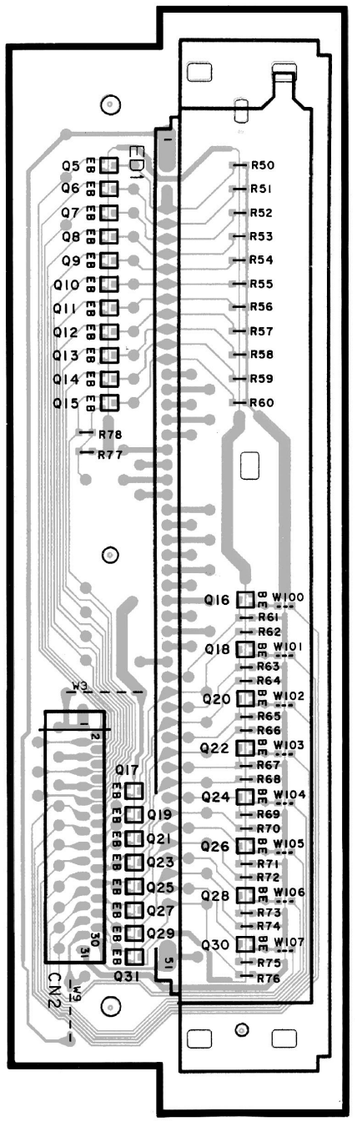
(X14-4372-71) (A/4)



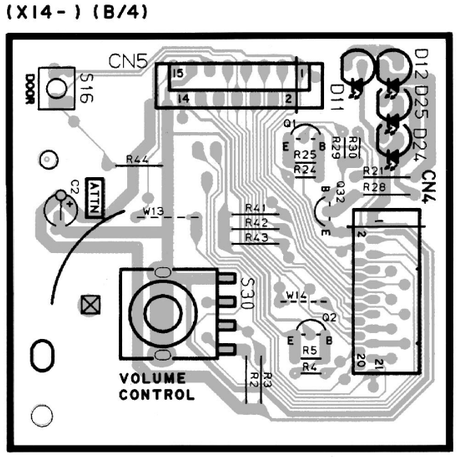
(X14-) (C/4)



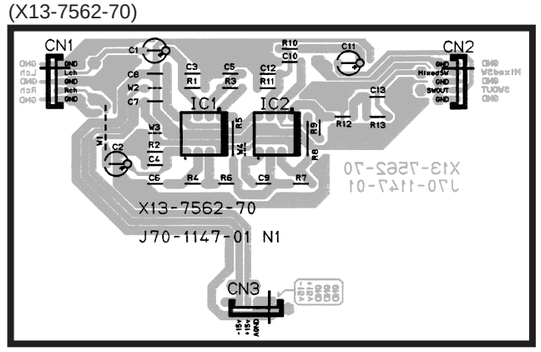
(X14-) (D/4)



(X14-) (B/4)

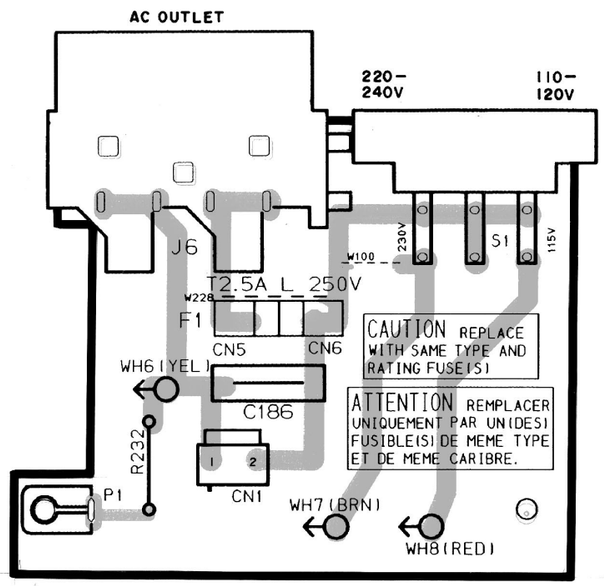


(X13-7562-70)

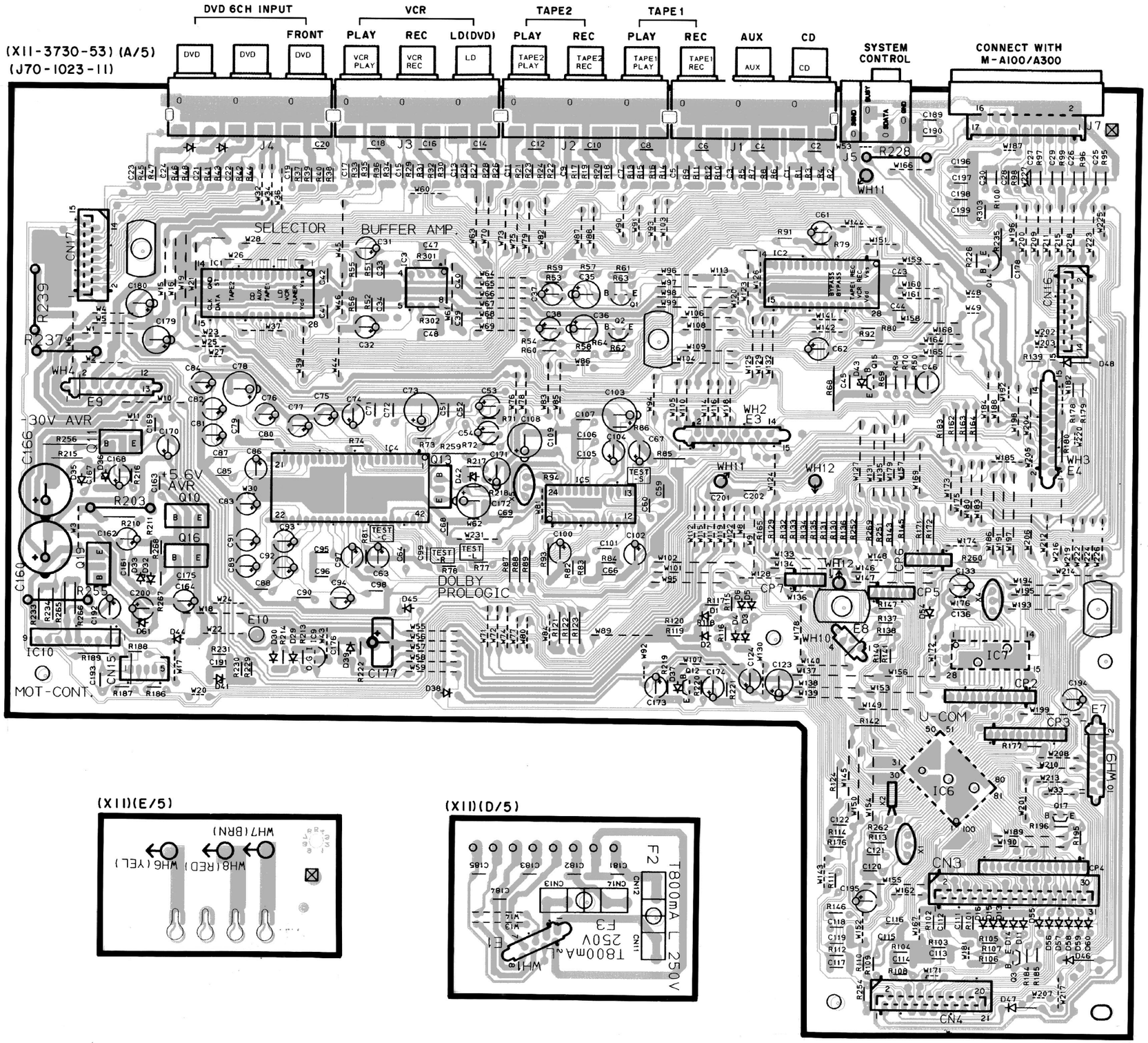


Refer to the schematic diagram for the value of resistors and capacitors.

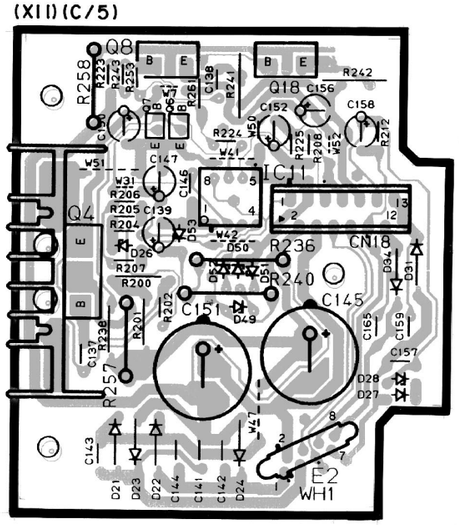
PC BOARD (Component side view)



(XII)(B/5)



(XII)(C/5)



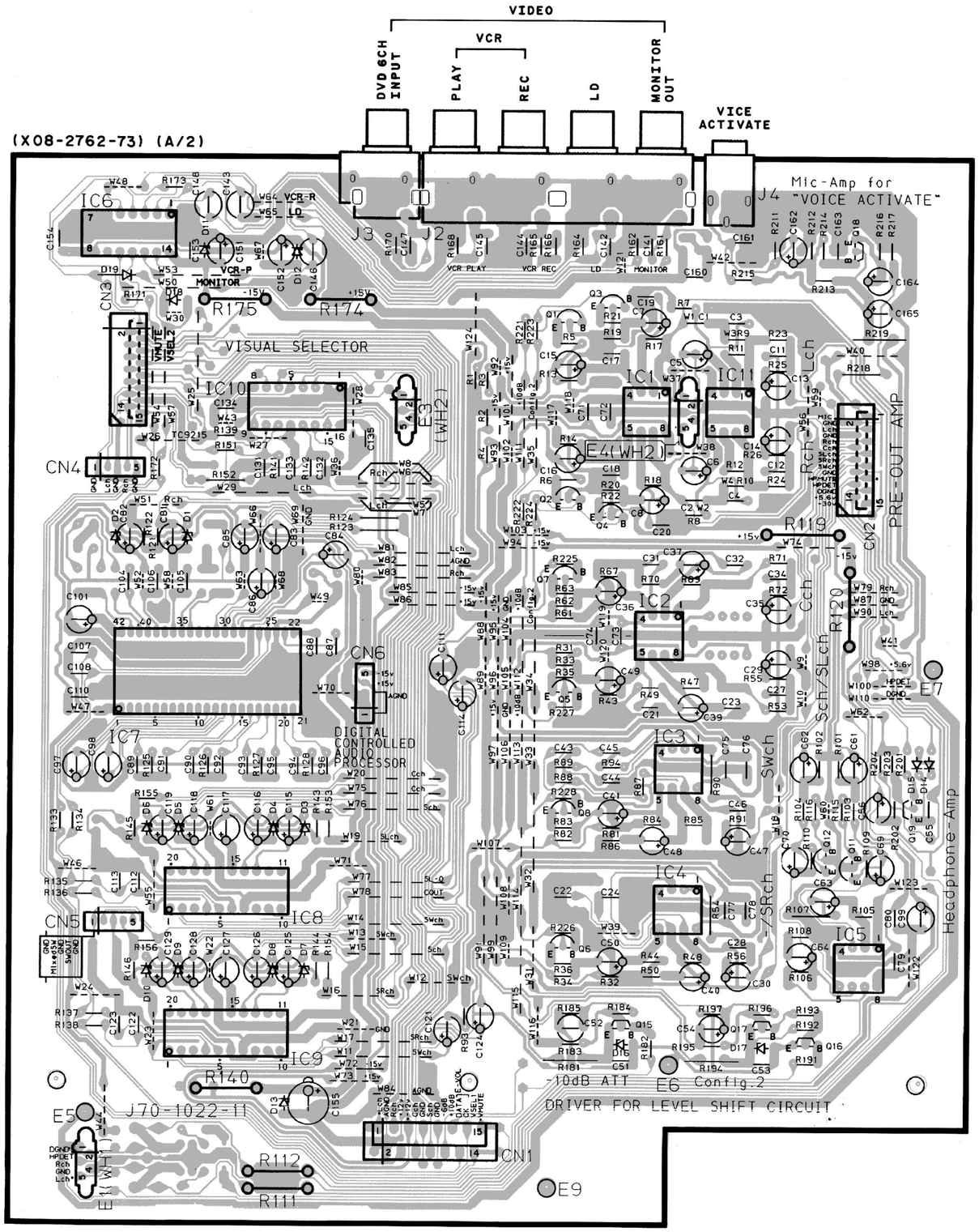
(XII)(E/5)

(XII)(D/5)

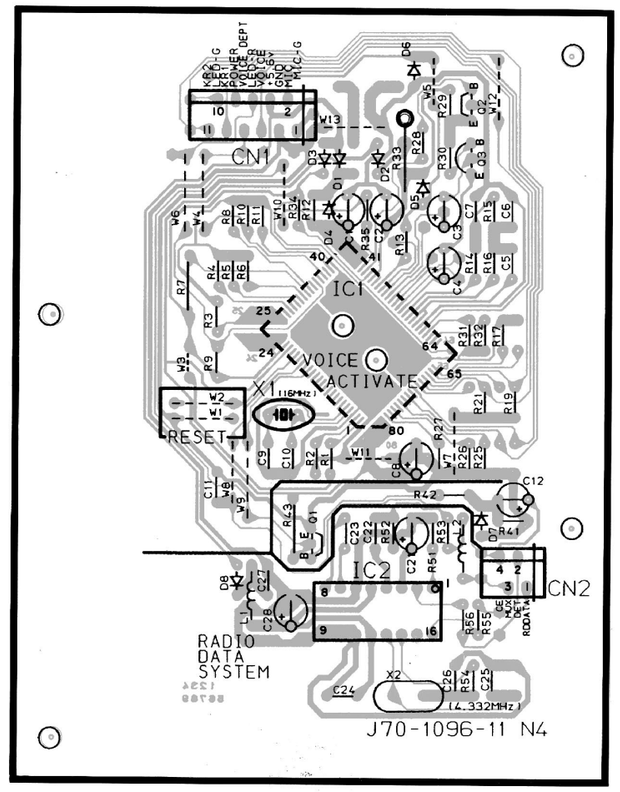
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

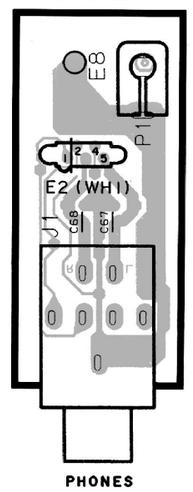
(X08-2762-73) (A/2)



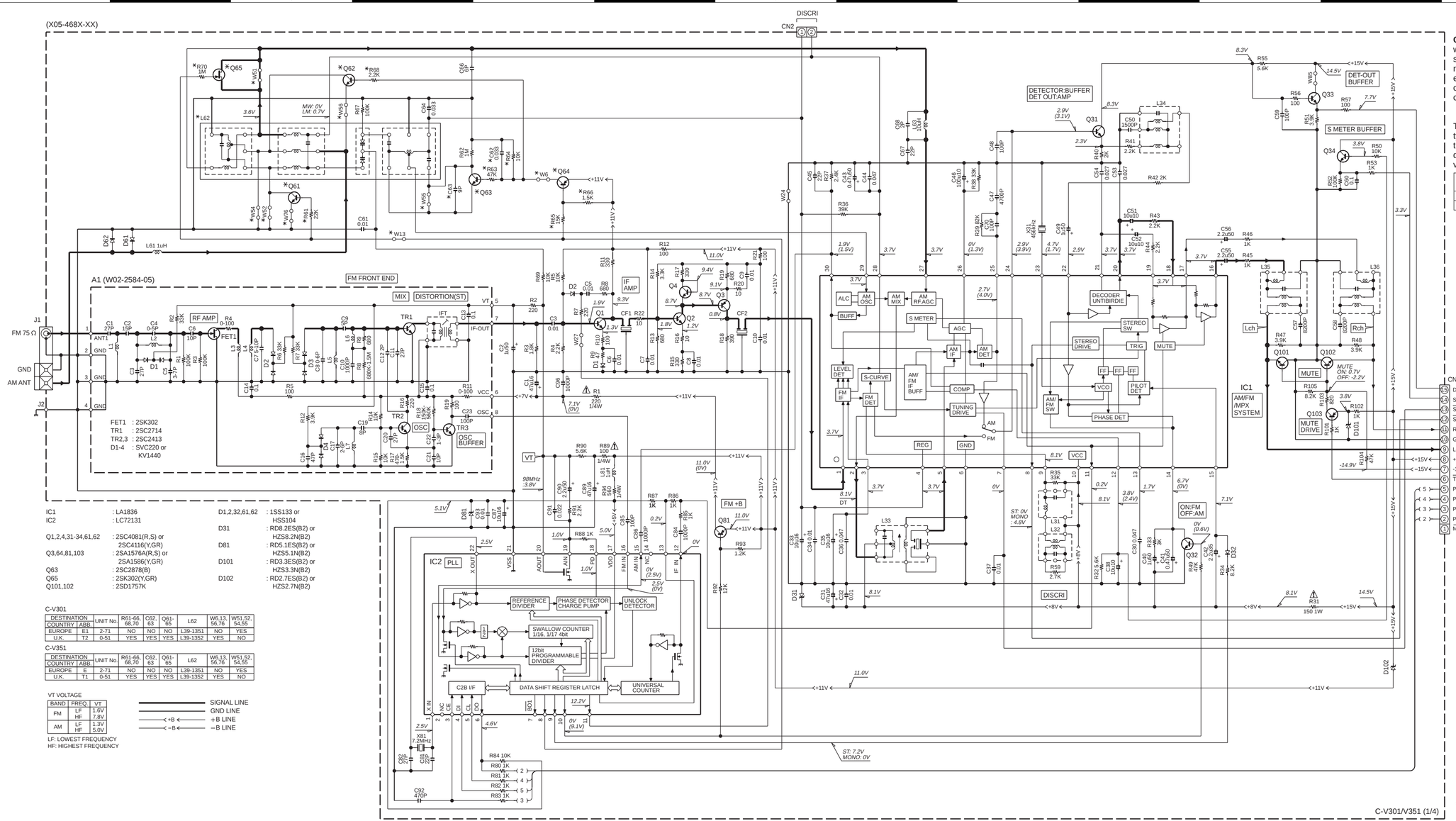
(X13-7522-71)



(X08-) (B/2)



Refer to the schematic diagram for the value of resistors and capacitors.



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

C-V301

DESTINATION		UNIT No.	R61-66, 68,70	C62, 63	Q61-65	L62	W6,13, 56,76	W51,52, 54,55
COUNTRY	ABB.							
EUROPE	E1	2-71	NO	NO	NO	L39-1351	NO	YES
U.K.	T2	0-51	YES	YES	YES	L39-1352	YES	NO

C-V351

DESTINATION		UNIT No.	R61-66, 68,70	C62, 63	Q61-65	L62	W6,13, 56,76	W51,52, 54,55
COUNTRY	ABB.							
EUROPE	E	2-71	NO	NO	NO	L39-1351	NO	YES
U.K.	T1	0-51	YES	YES	YES	L39-1352	YES	NO

Y05-3952-70

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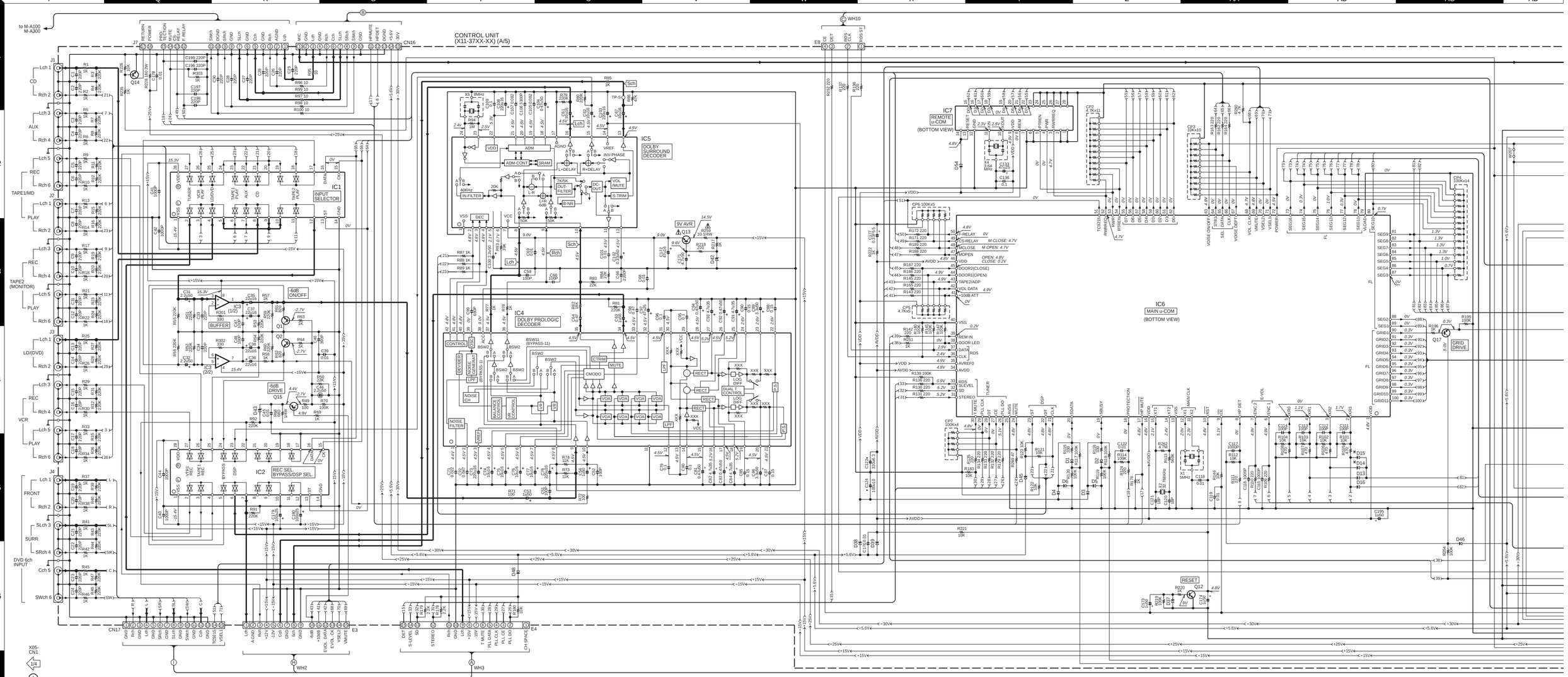

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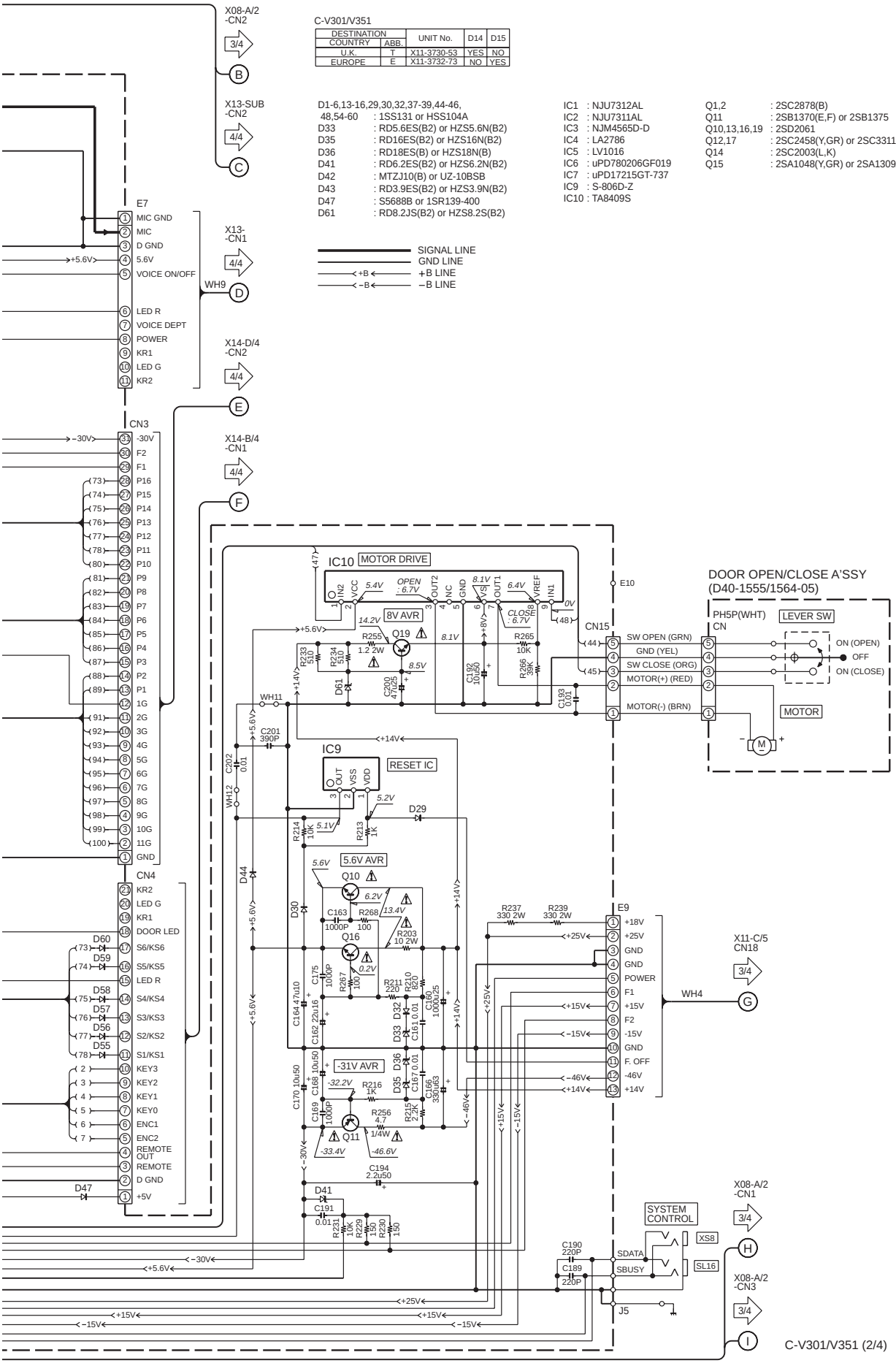

C-V301/V351

Y05-3952-70

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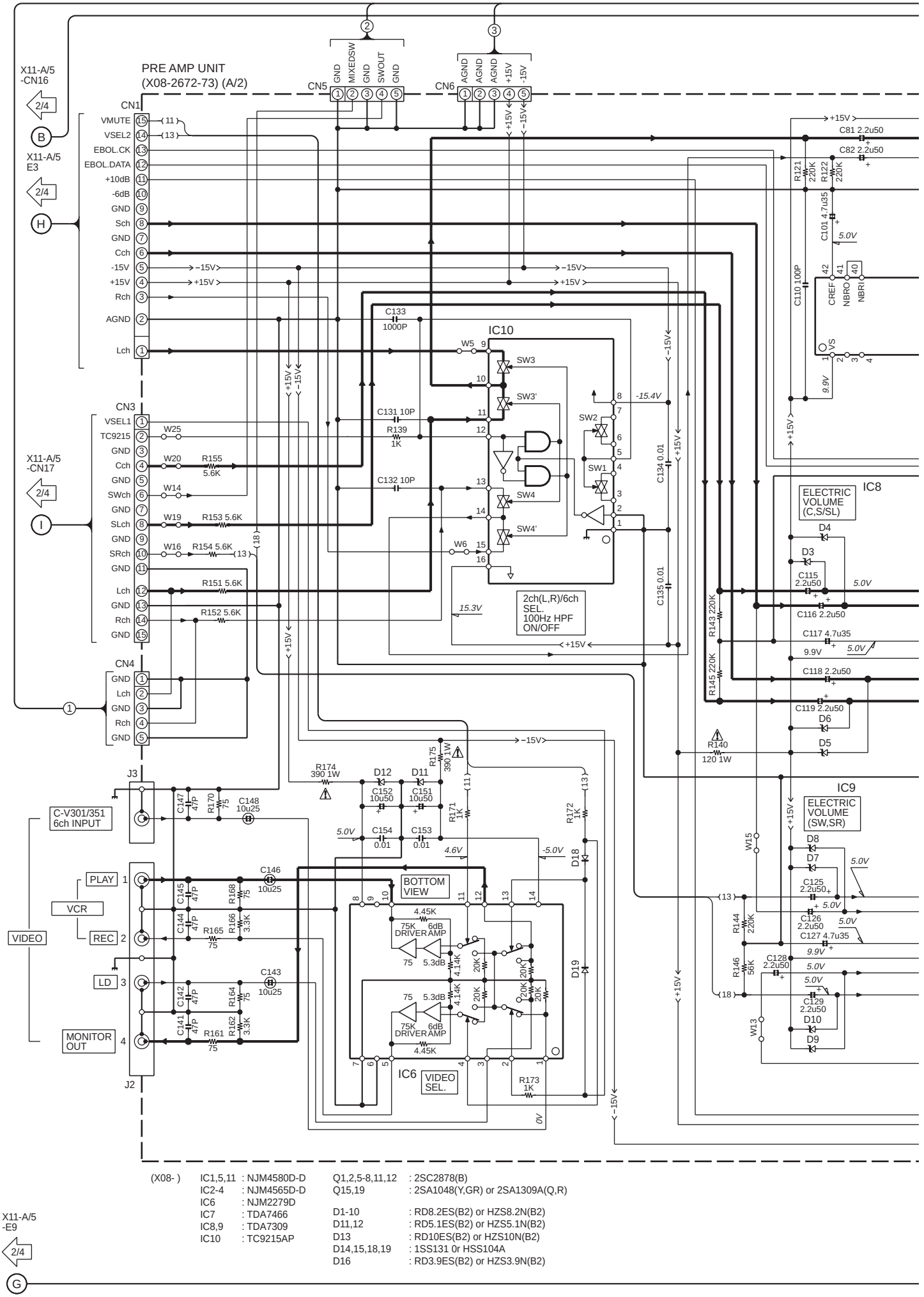
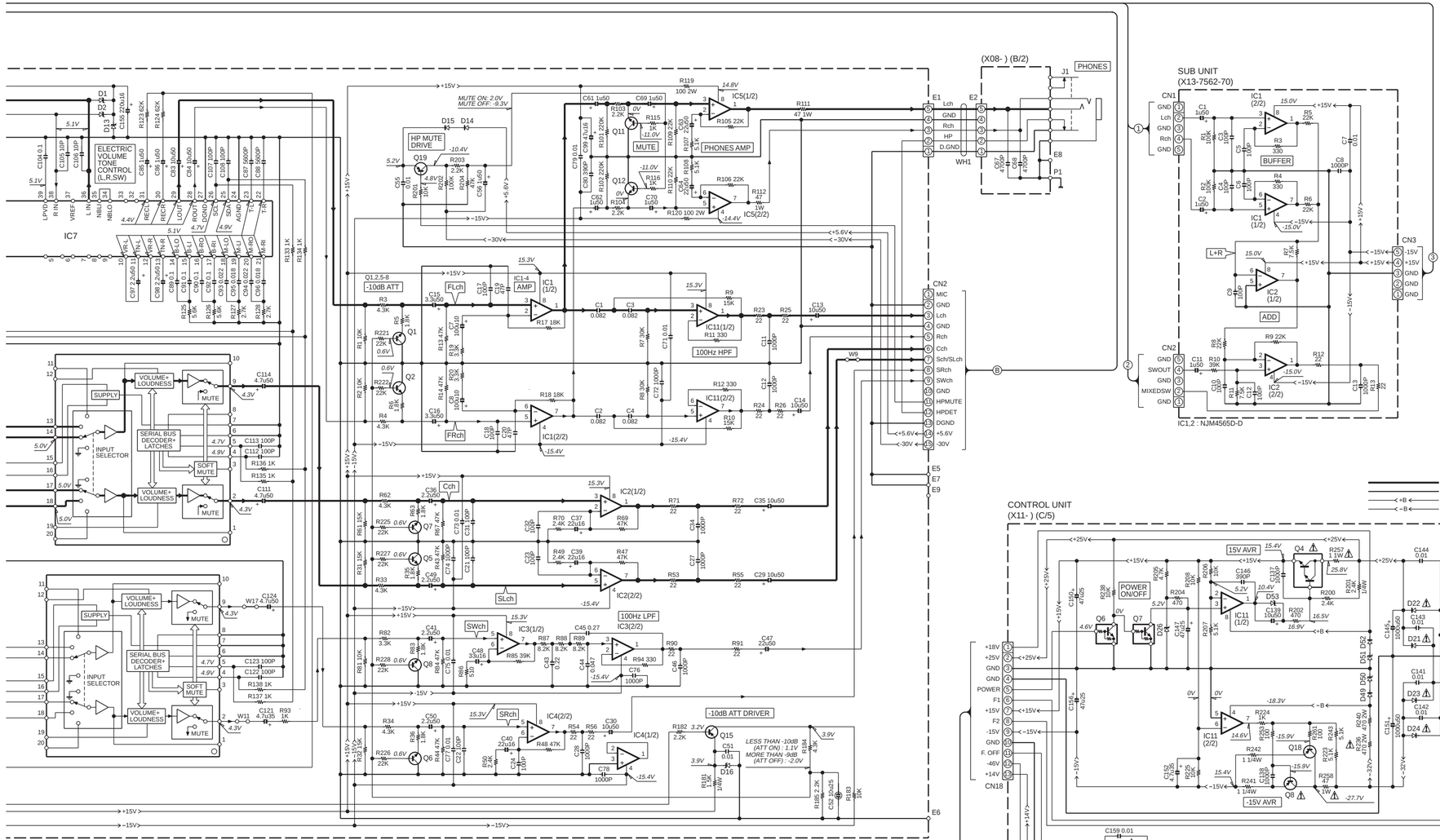


(X08-)

IC1,5,11	: NJM4580D-D	Q1,2,5-8,11,12	: 2SC2878(B)
IC2-4	: NJM4565D-D	Q15,19	: 2SA1048(Y,GR) or 2SA1309A(Q,R)
IC6	: NJM2279D		
IC7	: TDA7466	D1-10	: RD8.2ES(B2) or HZS8.2N(B2)
IC8,9	: TDA7309	D11,12	: RD5.1ES(B2) or HZS5.1N(B2)
IC10	: TC9215AP	D13	: RD10ES(B2) or HZS10N(B2)
		D14,15,18,19	: 1SS131 0r HSS104A
		D16	: RD3.9ES(B2) or HZS3.9N(B2)



2SC2003
2SC2878
2SC3246

DTC124ESA
2SA1048
2SC2458

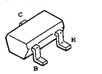
UN5119
2SA1576A
2SA1586
2SC4116

2SB1370
2SD2061

UN4212
2SA1309A
2SC3311A

2SB1375

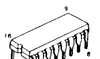
2SC4081
2SD1757K



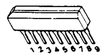
NJM4558D
NJM4565D-D

NJM2279D

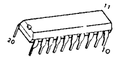
TC9215AP



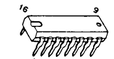
TA8409S



TDA7309

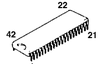


SAA6579



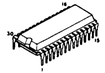
NJM4580D-D

TDA7466

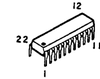


2SK302

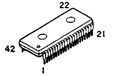
LA1836



LC72131

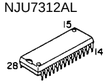


LA2786



LV1016

NJU7311AL
NJU7312AL



(X11-)
D21-24,31,34 : S5688B or 1SR139-400
D26,53 : RD5.1JS(B2) or HZS5.1S(B2)
D27 : 1SS131 or HSS104A
D28 : RD2.7ES(B2) or HZS2.7N(B2)
D49 : RD8.2ES(B2) or HZS8.2N(B2)
D50,51 : MTZJ10(B) or UZ-10BSB
D52 : RD6.2ES(B2) or HZS6.2N(B2)
IC11 : NJM4558D
Q4 : 2SD1894★2
Q6,7 : UN4212 or DTC124ESA
Q8,18 : 2SB1370(E,F) or 2SB1375

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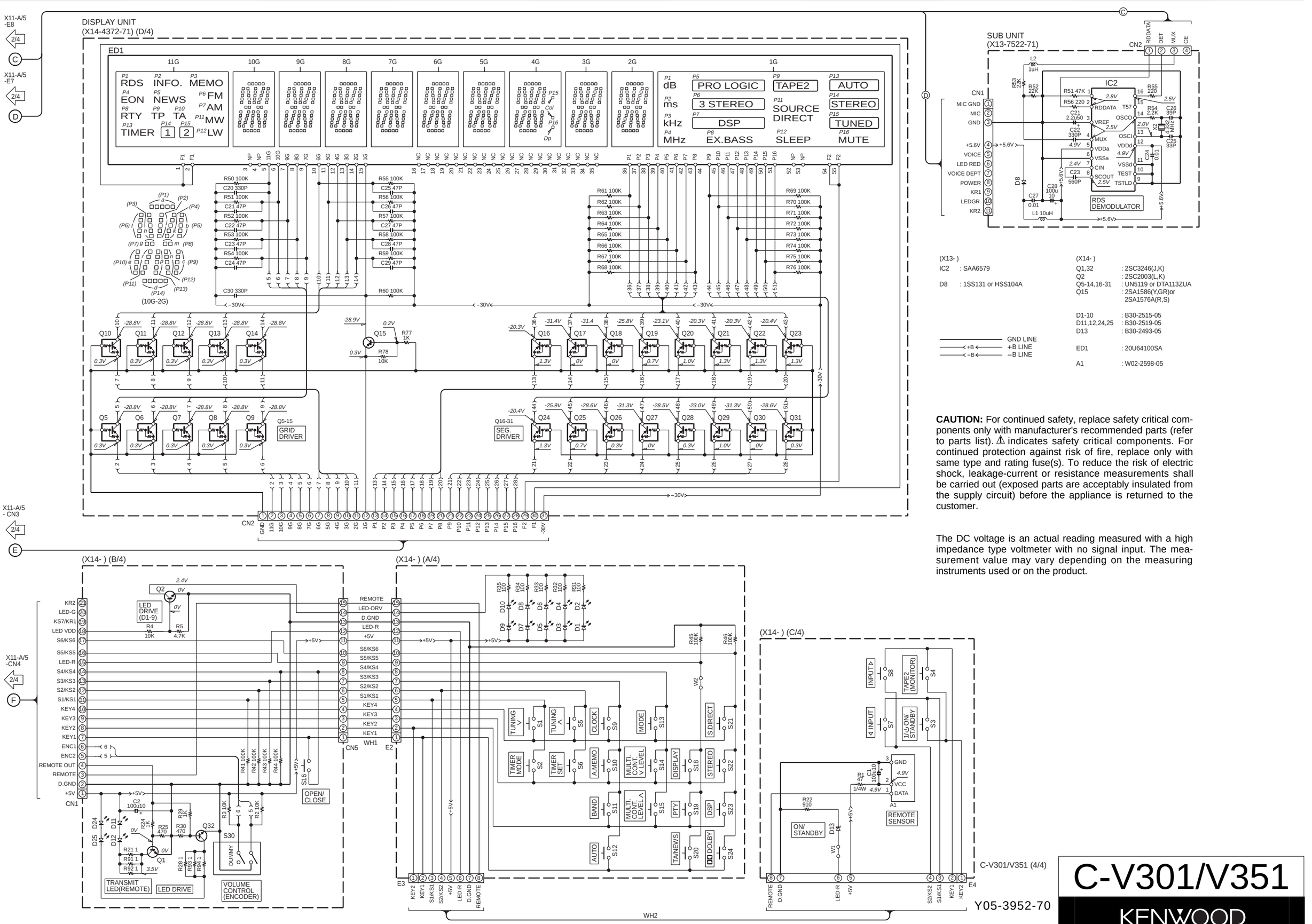
C-V301/V351 (3/4)

Y05-3952-70

C-V301/V351

KENWOOD



CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

C-V301/V351 (4/4)

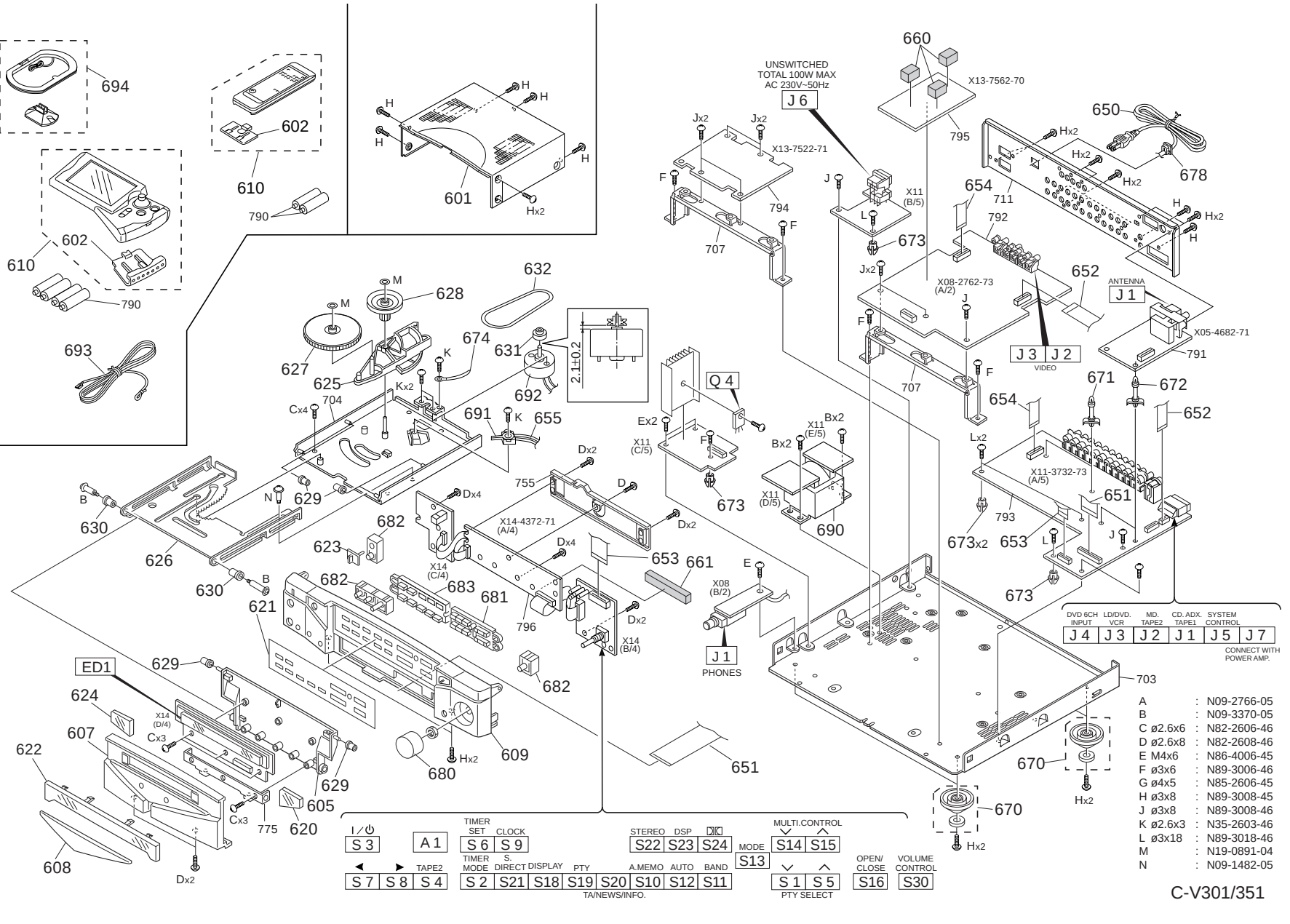
C-V301/V351

KENWOOD

Y05-3952-70

C-V301/V351

EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

✻ New Parts
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Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
			C-V301/V351			
601	1B		A01-3431-01	METALLIC CABINET		
602	1A		A09-0378-08	BATTERY COVER	E1T2	
602	1A		A09-1115-08	BATTERY COVER	ET1	
605	2A		A46-0303-01	REAR COVER		
607	2A		A29-0861-11	PANEL		
608	2A	✻	A21-3770-03	DRESSING PANEL	ET1	
608	2A		A21-3771-03	DRESSING PANEL	E1T2	
609	2B	✻	A60-1696-11	PANEL		
610	1A		A70-1205-15	REMOTE ASSY GRC-151	ET1	
610	1A	✻	A70-1306-05	REMOTE ASSY RC-S0506	E1T2	
620	2A		B10-2351-14	FRONT GLASS		
621	2A	✻	B03-3849-03	DRESSING PLATE		
622	2A	✻	B10-2349-12	FRONT GLASS		
623	2A		B12-0311-04	INDICATOR		
624	2A		B10-2350-14	FRONT GLASS		
-			B46-0310-03	WARRANTY CARD		
-			B58-0945-03	CAUTION CARD	T1T2	
-			B58-0965-13	CAUTION CARD (PL)	T1T2	
-			B58-0966-13	CAUTION CARD (PL)	EE1	
-		✻	B60-4349-00	INSTRUCTION MANUAL(EN)	T1T2	
-		✻	B60-4350-00	INSTRUCTION MANUAL(FR)	EE1	
-		✻	B60-4351-00	INSTRUCTION MANUAL(NE)	EE1	
-		✻	B60-4352-00	INSTRUCTION MANUAL(IT)	EE1	
-		✻	B60-4353-00	INSTRUCTION MANUAL(GE)	EE1	
-		✻	B60-4392-00	INSTRUCTION MANUAL(ES)	EE1	
625	1A		D10-3715-04	ARM ASSY		
626	2A		D10-3716-01	SLIDER		
627	1A		D13-1807-04	GEAR		
628	1B		D13-1808-03	GEAR		
629	2A		D14-0385-04	ROLLER		
630	2A		D14-0386-04	ROLLER		
631	1B		D15-0407-04	MOTOR PULLEY		
632	1B		D16-0715-03	BELT		
⚠ 650	1C		E30-2788-05	AC POWER CORD	EE1	
⚠ 650	1C		E30-2791-05	AC POWER CORD	T1T2	
651	2B,2C		E35-1773-05	FLAT CABLE		
652	1C		E35-1774-05	FLAT CABLE		
653	2B,2C		E35-1861-05	FLAT CABLE		
654	1C		E35-1781-05	FLAT CABLE		
655	1B		E35-1810-05	WIRING HARNESS		
660	1C		G11-2101-04	CUSHION		
661	2B		G11-2369-04	CUSHION		
-			G11-0153-04	SOFT TAPE (80X12X3)		
-			H10-7286-12	POLYSTYRENE FOAMED FIXTURE	EE1	
-		✻	H10-7287-32	POLYSTYRENE FOAMED FIXTURE	EE1	
-			H10-7288-12	POLYSTYRENE FOAMED FIXTURE	T1T2	
-		✻	H10-7289-32	POLYSTYRENE FOAMED FIXTURE	T1T2	
-		✻	H11-0095-04	POLYSTYRENE FOAMED BOARD	T1T2	
-			H13-0086-04	CARTON BOARD	EE1	
-		✻	H13-0288-04	CARTON BOARD	EE1	
-			H20-0568-04	PROTECTION COVER	EE1	
-			H25-0232-04	PROTECTION BAG (235X350X0.03)	EE1	

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❷

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-			H25-0651-04	PROTECTION BAG	T1T2	
-			H25-1516-04	PROTECTION BAG	T1T2	
-			H30-0100-04	ADHESIVE DOUBLE-COATED TAPE		
-		✻	H50-3442-04	ITEM CARTON CASE	E	
-		✻	H50-3443-04	ITEM CARTON CASE	T1	
-		✻	H50-3444-04	ITEM CARTON CASE	E1	
-		✻	H50-3445-04	ITEM CARTON CASE	T2	
670	2C		J02-1188-13	FOOT		
671	1C		J19-5917-05	UNIT HOLDER		
672	1C		J19-5919-05	UNIT HOLDER		
673	1C,2C		J19-3732-04	UNIT HOLDER		
674	1B		J19-5833-05	LEAD HOLDER		
⚠ 678	1C		J42-0083-05	POWER CORD BUSHING		
-			J61-0098-05	WIRE BAND		
680	2B		K29-6660-04	KNOB		
681	1B	✻	K29-7591-02	KNOB		
682	2A,2B		K29-6665-02	KNOB		
683	2B	✻	K29-7601-02	KNOB		
⚠ 690	2B		L07-2330-05	POWER TRANSFORMER		
691	1B		S64-0026-05	LEVER SWITCH		
692	1B		T42-0882-05	DC MOTOR		
693	1A		T90-0841-05	LEAD WIRE ANTENNA		
694	1A		T90-0833-05	LOOP ANTENNA		

TUNER (X05-4680-51)

C1			CE04LW1C470M	ELECTRO	47UF	16WV		
C2			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C3			CK73FB1H103K	CHIP C	0.010UF	K		
C5 -10			CK73FB1H103K	CHIP C	0.010UF	K		
C30			CK73EB1E473K	CHIP C	0.047UF	K		
C31			CE04LW1C470M	ELECTRO	47UF	16WV		
C32			CK73FB1H103K	CHIP C	0.010UF	K		
C33			CE04LW1C100M	ELECTRO	10UF	16WV		
C34			CK73FB1H103K	CHIP C	0.010UF	K		
C35			CE04LW1C100M	ELECTRO	10UF	16WV		
C36			CK73FB1E473K	CHIP C	0.047UF	K		
C37			CK73FB1H103K	CHIP C	0.010UF	K		
C38			C90-3217-05	ELECTRO	10UF	10WV		
C40			C90-3253-05	ELECTRO	1.0UF	50WV		
C41			C90-3251-05	ELECTRO	0.47UF	50WV		
C42			C90-3240-05	ELECTRO	2.2UF	35WV		
C43			CE04LW1HR47M	ELECTRO	0.47UF	50WV		
C44			CK73FB1E473K	CHIP C	0.047UF	K		
C45			CC73FCH1H220J	CHIP C	22PF	J		
C46			CE04LW1A101M	ELECTRO	100UF	10WV		
C47			CK73FB1H472K	CHIP C	4700PF	K		
C48			CC73FSL1H101J	CHIP C	100PF	J		
C49			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C50			CK73FB1H152K	CHIP C	1500PF	K		
C51 ,52			C90-3217-05	ELECTRO	10UF	10WV		
C53 ,54			CK73FB1H273K	CHIP C	0.027UF	K		
C55 ,56			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C57 ,58			CK73FB1H822K	CHIP C	8200PF	K		

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❸

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
C59			CC73FSL1H101J	CHIP C	100PF	J			
C60			CK73FB1E104K	CHIP C	0.10UF	K			
C61			CK73FB1H103K	CHIP C	0.010UF	K			
C62			CK73FB1H333K	CHIP C	0.033UF	K		T1T2	
C63			CC73FCH1H090D	CHIP C	9.0PF	D		T1T2	
C64			CK73FB1H333K	CHIP C	0.033UF	K			
C66			CC73FCH1H060D	CHIP C	6.0PF	D			
C67			CC73FCH1H220J	CHIP C	22PF	J			
C68			CC73FSL1H020C	CHIP C	2.0PF	C			
C70			CC73FSL1H101J	CHIP C	100PF	J			
C81			CC73FCH1H220J	CHIP C	22PF	J			
C82			CC73FCH1H270J	CHIP C	27PF	J			
C84			CK73FB1H102K	CHIP C	1000PF	K			
C85			CC73FSL1H101J	CHIP C	100PF	J			
C86			CK73FB1H102K	CHIP C	1000PF	K			
C87			CE04LW1C100M	ELECTRO	10UF	16WV			
C89			CE04LW1C470M	ELECTRO	47UF	16WV			
C90			CE04LW1H2R2M	ELECTRO	2.2UF	50WV			
C91			CK73FB1H223K	CHIP C	0.022UF	K			
C92			CC73FSL1H471J	CHIP C	470PF	J			
C93			CK73FB1H103K	CHIP C	0.010UF	K			
C96			CK73FB1H102K	CHIP C	1000PF	K			
CN1			E40-4609-05	PIN ASSY					
CN2			E40-4871-05	PIN ASSY					
J1			E70-0052-05	LOCK TERMINAL BOARD					
CF1 ,2			L72-0536-05	CERAMIC FILTER					
L31			L30-0943-05	FM IFT					
L32			L30-0944-05	FM IFT					
L33			L30-0911-05	AM IFT					
L34			L79-1240-05	LC FILTER					
L35 ,36			L79-1239-05	LC FILTER					
L61			L40-1091-17	SMALL FIXED INDUCTOR(1UH)					
L62			L39-1351-05	COMBINATION COIL				EE1	
L62			L39-1352-05	COMBINATION COIL				T1T2	
L63			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)					
L81			L40-1091-17	SMALL FIXED INDUCTOR(1UH)					
X31			L78-0637-05	RESONATOR (456KHZ)					
X81			L77-2159-05	CRYSTAL RESONATOR(7.2MHZ)					
⚠ R1			RD14NB2E221J	RD	220	J	1/4W		
R2			RK73FB2A221J	CHIP R	220	J	1/10W		
R3			RK73FB2A182J	CHIP R	1.8K	J	1/10W		
R4			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R5			RK73FB2A103J	CHIP R	10K	J	1/10W		
R7			RK73FB2A221J	CHIP R	220	J	1/10W		
R8			RK73FB2A681J	CHIP R	680	J	1/10W		
R9			RK73FB2A470J	CHIP R	47	J	1/10W		
R10			RK73FB2A101J	CHIP R	100	J	1/10W		
R11			RK73FB2A331J	CHIP R	330	J	1/10W		
R12			RK73FB2A101J	CHIP R	100	J	1/10W		
R13			RK73FB2A681J	CHIP R	680	J	1/10W		
R14			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R15			RK73FB2A331J	CHIP R	330	J	1/10W		
R16			RK73FB2A100J	CHIP R	10	J	1/10W		

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❹

Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
R17			RK73FB2A331J	CHIP R	330	J	1/10W		
R18			RK73FB2A391J	CHIP R	390	J	1/10W		
R19			RK73FB2A681J	CHIP R	680	J	1/10W		
R20			RK73FB2A100J	CHIP R	10	J	1/10W		
R21			RK73FB2A101J	CHIP R	100	J	1/10W		
⚠ R22			RK73FB2A100J	CHIP R	10	J	1/10W		
⚠ R31			RS14KB3A151J	FL-PROOF RS	150	J	1W		
R32			RK73EB2B562J	CHIP R	5.6K	J	1/8W		
R33			RK73FB2A302J	CHIP R	3.0K	J	1/10W		
R34			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
R35			RK73FB2A333J	CHIP R	33K	J	1/10W		
R36			RK73FB2A393J	CHIP R	39K	J	1/10W		
R37			RK73FB2A242J	CHIP R	2.4K	J	1/10W		
R38			RK73FB2A333J	CHIP R	33K	J	1/10W		
R39			RK73FB2A823J	CHIP R	82K	J	1/10W		
R40			RK73FB2A202J	CHIP R	2.0K	J	1/10W		
R41			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R42			RK73FB2A202J	CHIP R	2.0K	J	1/10W		
R43 ,44			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R45 ,46			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R47 ,48			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R49			RK73FB2A473J	CHIP R	47K	J	1/10W		
R51			RK73FB2A392J	CHIP R	3.9K	J	1/10W		
R52			RK73FB2A104J	CHIP R	100K	J	1/10W		
R53			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R55			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R56 ,57			RK73FB2A101J	CHIP R	100	J	1/10W		
R59			RK73FB2A272J	CHIP R	2.7K	J	1/10W		
R61			RK73FB2A223J	CHIP R	22K	J	1/10W	T1T2	
R62			RK73FB2A105J	CHIP R	1.0M	J	1/10W	T1T2	
R63			RK73FB2A473J	CHIP R	47K	J	1/10W	T1T2	
R64			RK73FB2A103J	CHIP R	10K	J	1/10W	T1T2	
R65			RK73FB2A153J	CHIP R	15K	J	1/10W	T1T2	
R66			RK73FB2A152J	CHIP R	1.5K	J	1/10W	T1T2	
R67			RK73FB2A104J	CHIP R	100K	J	1/10W		
R68			RK73FB2A222J	CHIP R	2.2K	J	1/10W	T1T2	
R69			RK73FB2A103J	CHIP R	10K	J	1/10W		
R70			RK73FB2A105J	CHIP R	1.0M	J	1/10W	T1T2	
R80			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R81 -83			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R84			RK73FB2A103J	CHIP R	10K	J	1/10W		
R85 -88			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
⚠ R89			RD14NB2E101J	RD	100	J	1/4W		
R90			RK73FB2A562J	CHIP R	5.6K	J	1/10W		
R91			RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R92			RK73FB2A123J	CHIP R	12K	J	1/10W		
R93			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R94			RD14NB2E561J	RD	560	J	1/4W		
R101,102			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R103			RK73FB2A821J	CHIP R	820	J	1/10W		
R104			RK73FB2A473J	CHIP R	47K	J	1/10W		
R105			RK73FB2A822J	CHIP R	8.2K	J	1/10W		
W51 -55			R92-0670-05	CHIP R	0 OHM			EE1	
W53			R92-0670-05	CHIP R	0 OHM			T1T2	
W56 -58			R92-0679-05	CHIP R	0 OHM			T1T2	

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❺

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W57 ,58			R92-0679-05	CHIP R	0 OHM		EE1	
W59			R92-0670-05	CHIP R	0 OHM			
W61			R92-0670-05	CHIP R	0 OHM			
W62 -64			R92-0679-05	CHIP R	0 OHM			
W66 ,67			R92-0679-05	CHIP R	0 OHM			
W71			R92-0670-05	CHIP R	0 OHM			
W75			R92-0670-05	CHIP R	0 OHM		EE1	
W75 ,76			R92-0670-05	CHIP R	0 OHM		T1T2	
W81			R92-0679-05	CHIP R	0 OHM			
W83			R92-0679-05	CHIP R	0 OHM			
W85			R92-0670-05	CHIP R	0 OHM			
D1 ,2			HSS104	DIODE				
D1 ,2			1SS133	DIODE				
D31			HZS8.2N(B2)	ZENER DIODE				
D31			RD8.2ES(B2)	ZENER DIODE				
D32			HSS104	DIODE				
D32			1SS133	DIODE				
D61 ,62			HSS104	DIODE				
D61 ,62			1SS133	DIODE				
D81			HZS5.1N(B2)	ZENER DIODE				
D81			RD5.1ES(B2)	ZENER DIODE				
D101			HZS3.3N(B2)	ZENER DIODE				
D101			RD3.3ES(B2)	ZENER DIODE				
D102			HZS2.7N(B2)	ZENER DIODE				
D102			RD2.7ES(B2)	ZENER DIODE				
IC1			LA1836	ANALOGUE IC				
IC2			LC72131	MOS-IC				
Q1 ,2			2SC4081(R,S)	TRANSISTOR				
Q1 ,2			2SC4116(Y,GR)	TRANSISTOR				
Q3			2SA1576A(R,S)	TRANSISTOR				
Q3			2SA1586(Y,GR)	TRANSISTOR				
Q4			2SC4081(R,S)	TRANSISTOR				
Q4			2SC4116(Y,GR)	TRANSISTOR				
Q31 -34			2SC4081(R,S)	TRANSISTOR				
Q31 -34			2SC4116(Y,GR)	TRANSISTOR				
Q61 ,62			2SC4081(R,S)	TRANSISTOR			T1T2	
Q61 ,62			2SC4116(Y,GR)	TRANSISTOR			T1T2	
Q63			2SC2878(B)	TRANSISTOR			T1T2	
Q64			2SA1576A(R,S)	TRANSISTOR			T1T2	
Q64			2SA1586(Y,GR)	TRANSISTOR			T1T2	
Q65			2SK302(Y,GR)	FET			T1T2	
Q81			2SA1576A(R,S)	TRANSISTOR				
Q81			2SA1586(Y,GR)	TRANSISTOR				
Q101,102			2SD1757K	TRANSISTOR				
Q103			2SA1576A(R,S)	TRANSISTOR				
Q103			2SA1586(Y,GR)	TRANSISTOR				
A1			W02-2584-05	FM FRONT-END ASSY				
PREAMP (X08-2762-73)								
C1 -4			CQ93FMG1H823J	MYLAR	0.082UF	J		
C7 ,8			CE04KW1A101M	ELECTRO	100UF	10WV		
C11 ,12			CK45FB1H102K	CERAMIC	1000PF	K		
C13 ,14			CE04KW1H100M	ELECTRO	10UF	50WV		
C15 ,16			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
C17 ,18			CC45FSL1H101J	CERAMIC	100PF	J		
C19 ,20			CC45FSL1H470J	CERAMIC	47PF	J		
C21 -24			CC45FSL1H101J	CERAMIC	100PF	J		
C27 ,28			CK45FB1H102K	CERAMIC	1000PF	K		
C29 ,30			CE04KW1H100M	ELECTRO	10UF	50WV		
C31 ,32			CC45FSL1H101J	CERAMIC	100PF	J		
C34			CK45FB1H102K	CERAMIC	1000PF	K		
C35			CE04KW1H100M	ELECTRO	10UF	50WV		
C36			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C37			CE04KW1C220M	ELECTRO	22UF	16WV		
C39 ,40			CE04KW1C220M	ELECTRO	22UF	16WV		
C41			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C43			CF92FV1H224J	MF-C	0.22UF	J		
C44			CQ93FMG1H473J	MYLAR	0.047UF	J		
C45			CF92FV1H274J	MF-C	0.27UF	J		
C46			CK45FB1H102K	CERAMIC	1000PF	K		
C47			CE04KW1H220M	ELECTRO	22UF	50WV		
C48			CE04KW1C330M	ELECTRO	33UF	16WV		
C49 ,50			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C51			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C52			CE04HW1E100M	NP-ELEC	10UF	25WV		
C55			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C56			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C61 ,62			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C63 ,64			CE04KW1H220M	ELECTRO	22UF	50WV		
C67 ,68			CK45FF1H472Z	CERAMIC	4700PF	Z		
C69 ,70			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C71			CQ93FMG1H103J	MYLAR	0.010UF	J		
C72			CQ93FMG1H102J	MYLAR	1000PF	J		
C73			CQ93FMG1H103J	MYLAR	0.010UF	J		
C74			CQ93FMG1H102J	MYLAR	1000PF	J		
C75			CQ93FMG1H103J	MYLAR	0.010UF	J		
C76			CQ93FMG1H102J	MYLAR	1000PF	J		
C77			CQ93FMG1H103J	MYLAR	0.010UF	J		
C78			CQ93FMG1H102J	MYLAR	1000PF	J		
C79			CQ93FMG1H103J	MYLAR	0.010UF	J		
C80			CQ93FMG1H391K	MYLAR	390PF	K		
C81 ,82			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C83 ,84			CE04KW1H100M	ELECTRO	10UF	50WV		
C85 ,86			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C87 ,88			CQ93FMG1H562J	MYLAR	5600PF	J		
C89 -92			CF92FV1H104J	MF-C	0.10UF	J		
C93 ,94			CQ93FMG1H223J	MYLAR	0.022UF	J		
C95 ,96			CQ93FMG1H183J	MYLAR	0.018UF	J		
C97 ,98			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C99			CE04KW1C470M	ELECTRO	47UF	16WV		
C101			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C104			CF92FV1H104J	MF-C	0.10UF	J		
C105,106			CC45FSL1H100D	CERAMIC	10PF	D		
C107,108			CC45FSL1H101J	CERAMIC	100PF	J		
C110			CC45FSL1H101J	CERAMIC	100PF	J		
C111			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C112,113			CC45FSL1H101J	CERAMIC	100PF	J		
C114			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C115,116			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		

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C117			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C118,119			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C121			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C122,123			CC45FSL1H101J	CERAMIC	100PF	J		
C124			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C125,126			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C127			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C128,129			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C131,132			CC45FSL1H100D	CERAMIC	10PF	D		
C133			CK45FB1H102K	CERAMIC	1000PF	K		
C134,135			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C141,142			CC45FSL1H470J	CERAMIC	47PF	J		
C143			CE04HW1E100M	NP-ELEC	10UF	25WV		
C144,145			CC45FSL1H470J	CERAMIC	47PF	J		
C146			CE04HW1E100M	NP-ELEC	10UF	25WV		
C147			CC45FSL1H470J	CERAMIC	47PF	J		
C148			CE04HW1E100M	NP-ELEC	10UF	25WV		
C151,152			CE04KW1H100M	ELECTRO	10UF	50WV		
C153,154			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C155			CE04KW1C221M	ELECTRO	220UF	16WV		
CN1			E40-4609-05	PIN ASSY				
CN2 ,3			E40-4902-05	FLAT CABLE CONNECTOR				
CN4 -6			E40-8179-05	PIN ASSY				
J1			E11-0280-05	PHONE JACK				
J2			E63-0163-05	PIN JACK				
J3			E63-1005-05	PIN JACK				
E5 -9			J11-0809-05	WIRE CLAMPER				
R111,112			RS14KB3A470J	FL-PROOF RS	47	J 1W		
R119,120			RS14KB3D101J	FL-PROOF RS	100	J 2W		
⚠ R140			RS14KB3A121J	FL-PROOF RS	120	J 1W		
⚠ R174,175			RS14KB3A391J	FL-PROOF RS	390	J 1W		
R181			RD14NB2E152J	RD	1.5K	J 1/4W		
D1 -10			HZS8.2N(B2)	ZENER DIODE				
D1 -10			RD8.2ES(B2)	ZENER DIODE				
D11 ,12			HZS5.1N(B2)	ZENER DIODE				
D11 ,12			RD5.1ES(B2)	ZENER DIODE				
D13			HZS10N(B2)	ZENER DIODE				
D13			RD10ES(B2)	ZENER DIODE				
D14 ,15			HSS104A	DIODE				
D14 ,15			1SS131	DIODE				
D16			HZS3.9N(B2)	ZENER DIODE				
D16			RD3.9ES(B2)	ZENER DIODE				
D18 ,19			HSS104A	DIODE				
D18 ,19			1SS131	DIODE				
IC1			NJM4580D-D	IC(OP AMP X2)				
IC2 -4			NJM4565D-D	IC(OP AMP X2)				
IC5			NJM4580D-D	IC(OP AMP X2)				
IC6			NJM2279D	ANALOGUE IC				
IC7			TDA7466	ANALOGUE IC				
IC8 ,9			TDA7309	ANALOGUE IC				
IC10			TC9215AP	ANALOGUE IC				
IC11			NJM4580D-D	IC(OP AMP X2)				
Q1 ,2			2SC2878(B)	TRANSISTOR				

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Q5 -8			2SC2878(B)	TRANSISTOR				
Q11 ,12			2SC2878(B)	TRANSISTOR				
Q15			2SA1048(Y,GR)	TRANSISTOR				
Q15			2SA1309A(Q,R)	TRANSISTOR				
Q19			2SA1048(Y,GR)	TRANSISTOR				
Q19			2SA1309A(Q,R)	TRANSISTOR				
CONTROL (X11-3730-53)								
C1 -30			CC45FSL1H221J	CERAMIC	220PF	J		
C31 ,32			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C33 ,34			CC45FSL1H221J	CERAMIC	220PF	J		
C35 ,36			C90-3748-05	ELECTRO	22UF	16WV		
C37 ,38			CE04KW1C220M	ELECTRO	22UF	16WV		
C39			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C40			CK45FB1H391K	CERAMIC	390PF	K		
C41 -44			CQ93FMG1H102J	MYLAR	1000PF	J		
C45			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C46			CE04HW1H2R2M	NP-ELEC	2.2UF	50WV		
C47 ,48			CC45FSL1H101J	CERAMIC	100PF	J		
C51 ,52			CC45FSL1H101J	CERAMIC	100PF	J		
C53 ,54			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C59 ,60			CC45FSL1H101J	CERAMIC	100PF	J		
C61 ,62			CE04KW1C100M	ELECTRO	10UF	16WV		
C63			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C64			CF92FV1H474J	MF-C	0.47UF	J		
C66			CQ93FMG1H222J	MYLAR	2200PF	J		
C67			CE04KW1C100M	ELECTRO	10UF	16WV		
C68 ,69			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C71			CQ93FMG1H223J	MYLAR	0.022UF	J		
C72			CQ93FMG1H473J	MYLAR	0.047UF	J		
C73			CE04KW1C221M	ELECTRO	220UF	16WV		
C74 -77			CE04KW1C100M	ELECTRO	10UF	16WV		
C78			CE04KW1C221M	ELECTRO	220UF	16WV		
C79 ,80			CQ93FMG1H104J	MYLAR	0.10UF	J		
C81			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C82			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C83			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C84			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C85			CF92FV1H154J	MF-C	0.15UF	J		
C86			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C87 ,88			CF92FV1H154J	MF-C	0.15UF	J		
C89			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C90			CF92FV1H154J	MF-C	0.15UF	J		
C91			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C92			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C93			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C94			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C95 ,96			CQ93FMG1H104J	MYLAR	0.10UF	J		
C97			CE04KW1E470M	ELECTRO	47UF	25WV		
C98			CF92FV1H474J	MF-C	0.47UF	J		
C99			CQ93FMG1H681J	MYLAR	680PF	J		
C100			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C101			CQ93FMG1H103J	MYLAR	0.010UF	J		
C102			CE04KW1HR33M	ELECTRO	0.33UF	50WV		
C103			CE04KW1C221M	ELECTRO	220UF	16WV		

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C104			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C105			CQ93FMG1H823J	MYLAR	0.082UF	J		
C106			CQ93FMG1H332J	MYLAR	3300PF	J		
C107			CQ93FMG1H823J	MYLAR	0.082UF	J		
C108			CE04KW1C221M	ELECTRO	220UF	16WV		
C109			CQ93FMG1H104J	MYLAR	0.10UF	J		
C111-114			CC45FSL1H101J	CERAMIC	100PF	J		
C115-117			CK45FB1H102K	CERAMIC	1000PF	K		
C118,119			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C120,121			CC45FCH1H180J	CERAMIC	18PF	J		
C122			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C123			CE04KW0J331M	ELECTRO	330UF	6.3WV		
C124			CE04KW1A101M	ELECTRO	100UF	10WV		
C133			CE04KW1E470M	ELECTRO	47UF	25WV		
C136			CQ93FMG1H104J	MYLAR	0.10UF	J		
C137,138			CK45FB1H102K	CERAMIC	1000PF	K		
C139			CE04KW1H100M	ELECTRO	10UF	50WV		
C141-144			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C145			CE04KW1H102M	ELECTRO	1000UF	50WV		
C146			CK45FB1H391K	CERAMIC	390PF	K		
C147			CE04KW1E470M	ELECTRO	47UF	25WV		
C150			CE04KW1E470M	ELECTRO	47UF	25WV		
C151			CE04KW1H102M	ELECTRO	1000UF	50WV		
C152			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C156			CE04KW1E470M	ELECTRO	47UF	25WV		
C157			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C158			CE04KW1H100M	ELECTRO	10UF	50WV		
C159			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C160			CE04KW1E102M	ELECTRO	1000UF	25WV		
C161			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C162			CE04KW1C220M	ELECTRO	22UF	16WV		
C163			CK45FB1H102K	CERAMIC	1000PF	K		
C164			CE04KW1A470M	ELECTRO	47UF	10WV		
C165			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C166			CE04KW1J331M	ELECTRO	330UF	63WV		
C167			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C168			CE04KW1H100M	ELECTRO	10UF	50WV		
C169			CK45FB1H102K	CERAMIC	1000PF	K		
C170			CE04KW1H100M	ELECTRO	10UF	50WV		
C171			C90-3747-05	ELECTRO	4.7UF	50WV		
C172			C90-3749-05	ELECTRO	47UF	16WV		
C173,174			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C175			CK45FB1H102K	CERAMIC	1000PF	K		
C176			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C177			C90-3623-05	BACKUP	0.33F	5.5V		
C178			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C179,180			CE04KW1E101M	ELECTRO	100UF	25WV		
C181-185			CK45FF1H103Z	CERAMIC	0.010UF	Z		
⚠ C186			C91-1488-05	MF	6800PF	250VAC		
C189,190			CC45FSL1H221J	CERAMIC	220PF	J		
C191			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C192			CE04KW1H100M	ELECTRO	10UF	50WV		
C193			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C194			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C195			CE04KW1H010M	ELECTRO	1.0UF	50WV		

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C196-199			CC45FSL1H221J	CERAMIC	220PF	J			
C200			CE04KW1E470M	ELECTRO	47UF	25WV			
C201			CK45FB1H391K	CERAMIC	390PF	K			
C202			CK45FF1H103Z	CERAMIC	0.010UF	Z			
CN1			E40-8126-05	PIN ASSY					
CN3			E40-4918-05	FLAT CABLE CONNECTOR					
CN4			E40-4908-05	FLAT CABLE CONNECTOR					
CN15			E40-3249-05	PIN ASSY					
CN16,17			E40-4902-05	FLAT CABLE CONNECTOR					
CN18			E40-4607-05	PIN ASSY					
J1 -3			E63-0139-15	PIN JACK					
J4			E63-1084-05	PIN JACK					
J5			E11-0293-05	MINIATURE PHONE JACK(2P)					
⚠ J6			E03-0149-05	AC OUTLET				EE1	
⚠ J6			E03-0310-05	AC OUTLET				T1T2	
J7			E58-0018-05	RECTANGULAR RECEPTACLE					
⚠ F1			F05-2525-05	FUSE (SEMKO) (250V T2.5AL)					
⚠ F2 ,3			F05-8013-05	FUSE (SEMKO) (250V T800MAL)					
CN5 ,6			J13-0075-05	FUSE CLIP					
CN5 ,6			J13-0092-05	FUSE CLIP					
CN11-14			J13-0075-05	FUSE CLIP					
CN11-14			J13-0092-05	FUSE CLIP					
E10			J11-0808-05	WIRE CLAMPER					
X1			L78-0284-05	RESONATOR (5MHZ)					
X2			L77-2173-05	CRYSTAL RESONATOR(32.768KHZ)					
X4			L78-0674-05	RESONATOR (3.64MHZ)					
X5			L78-0290-05	RESONATOR (8MHZ)					
CP2			R90-0860-05	MULTI-COMP	4.7K X1	1			
CP3			R90-0812-05	MULTI-COMP	10KX10	J	1/6W		
CP4			R90-0864-05	MULTI-COMP	100KX14				
CP5			R90-0892-05	MULTI-COMP	4.7KX5				
CP6			R90-0855-05	MULTI-COMP	100KX5	J			
CP7			R90-0482-05	MULTI-COMP	100KX4	J	1/6W		
R68			RD14NB2E681J	RD	680	J	1/4W		
⚠ R203			RS14KB3D100J	FL-PROOF RS	10	J	2W		
R228			RS14KB3D181J	FL-PROOF RS	180	J	2W		
⚠ R236			RS14KB3D471J	FL-PROOF RS	470	J	2W		
⚠ R237			RS14KB3D331J	FL-PROOF RS	330	J	2W		
R239			RS14KB3D331J	FL-PROOF RS	330	J	2W		
R240			RS14KB3D471J	FL-PROOF RS	470	J	2W		
R241,242			RD14NB2E1R0J	RD	1	J	1/4W		
⚠ R255			RS14KB3D1R2J	FL-PROOF RS	1.2	J	2W		
⚠ R256			RD14NB2E4R7J	RD	4.7	J	1/4W		
⚠ R257			RS14KB3A1R0J	FL-PROOF RS	1	J	1W		
⚠ R258			RS14KB3A470J	FL-PROOF RS	47	J	1W		
⚠ R259			RD14NB2E100J	RD	10	J	1/4W		
D1 -6			HSS104A	DIODE					
D1 -6			1SS131	DIODE					
D13			HSS104A	DIODE				EE1	
D13			1SS131	DIODE				EE1	
D13 ,14			HSS104A	DIODE				T1T2	
D13 ,14			1SS131	DIODE				T1T2	
D15 ,16			HSS104A	DIODE				EE1	

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⑪

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
D15 ,16			1SS131	DIODE	EE1	
D16			HSS104A	DIODE	T1T2	
D16			1SS131	DIODE	T1T2	
⚠ D21 -24			S5688B	DIODE		
⚠ D21 -24			1SR139-400	DIODE		
D26			HZS5.1S(B2)	ZENER DIODE		
D26			RD5.1JS(B2)	ZENER DIODE		
D27			HSS104A	DIODE		
D27			1SS131	DIODE		
D28			HZS2.7N(B2)	ZENER DIODE		
D28			RD2.7ES(B2)	ZENER DIODE		
D29 ,30			HSS104A	DIODE		
D29 ,30			1SS131	DIODE		
⚠ D31			S5688B	DIODE		
⚠ D31			1SR139-400	DIODE		
D32			HSS104A	DIODE		
D32			1SS131	DIODE		
D33			HZS5.6N(B2)	ZENER DIODE		
D33			RD5.6ES(B2)	ZENER DIODE		
⚠ D34			S5688B	DIODE		
⚠ D34			1SR139-400	DIODE		
D35			HZS16N(B2)	ZENER DIODE		
D35			RD16ES(B2)	ZENER DIODE		
D36			HZS18N(B)	ZENER DIODE		
D36			RD18ES(B)	ZENER DIODE		
D37 -39			HSS104A	DIODE		
D37 -39			1SS131	DIODE		
D41			HZS6.2N(B2)	ZENER DIODE		
D41			RD6.2ES(B2)	ZENER DIODE		
D42			MTZJ10(B)	ZENER DIODE		
D42			UZ-10BSB	ZENER DIODE		
D43			HZS3.9N(B2)	ZENER DIODE		
D43			RD3.9ES(B2)	ZENER DIODE		
D44 -46			HSS104A	DIODE		
D44 -46			1SS131	DIODE		
D47			S5688B	DIODE		
D47			1SR139-400	DIODE		
D48			HSS104A	DIODE		
D48			1SS131	DIODE		
D49			HZS8.2N(B2)	ZENER DIODE		
D49			RD8.2ES(B2)	ZENER DIODE		
D50 ,51			MTZJ10(B)	ZENER DIODE		
D50 ,51			UZ-10BSB	ZENER DIODE		
D52			HZS6.2N(B2)	ZENER DIODE		
D52			RD6.2ES(B2)	ZENER DIODE		
D53			HZS5.1S(B2)	ZENER DIODE		
D53			RD5.1JS(B2)	ZENER DIODE		
D54 -60			HSS104A	DIODE		
D54 -60			1SS131	DIODE		
D61			HZS8.2S(B2)	ZENER DIODE		
D61			RD8.2JS(B2)	ZENER DIODE		
IC1			NJU7312AL	ANALOGUE IC		
IC2			NJU7311AL	ANALOGUE IC		
IC3			NJM4565D-D	IC(OP AMP X2)		
IC4			LA2786	ANALOGUE IC		

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Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

⑫

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
IC5			LV1016	DI BI-POLAR IC		
IC6			UPD780206GF019	MI-COM IC		
IC7			UPD17215GT-737	MI-COM IC		
IC9			S-806D-Z	ANALOGUE IC		
IC10			TA8409S	MOS-IC		
IC11			NJM4558D	ANALOGUE IC		
Q1 ,2			2SC2878(B)	TRANSISTOR		
⚠ Q4			2SD1894*2	TRANSISTOR		
Q6 ,7			DTC124ESA	DIGITAL TRANSISTOR		
Q6 ,7			UN4212	DIGITAL TRANSISTOR		
⚠ Q8			2SB1370(E,F)	TRANSISTOR		
⚠ Q8			2SB1375	TRANSISTOR		
⚠ Q10			2SD2061	TRANSISTOR		
⚠ Q11			2SB1370(E,F)	TRANSISTOR		
⚠ Q11			2SB1375	TRANSISTOR		
Q12			2SC2458(Y,GR)	TRANSISTOR		
Q12			2SC3311A(Q,R)	TRANSISTOR		
⚠ Q13			2SD2061	TRANSISTOR		
Q14			2SC2003(L,K)	TRANSISTOR		
Q15			2SA1048(Y,GR)	TRANSISTOR		
Q15			2SA1309A(Q,R)	TRANSISTOR		
⚠ Q16			2SD2061	TRANSISTOR		
Q17			2SC2458(Y,GR)	TRANSISTOR		
Q17			2SC3311A(Q,R)	TRANSISTOR		
Q18			2SB1370(E,F)	TRANSISTOR		
Q18			2SB1375	TRANSISTOR		
⚠ Q19			2SD2061	TRANSISTOR		

SUB (X13-7522-71)

C21			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C22			CC45FSL1H331J	CERAMIC	330PF	J		
C23			CK45FB1H561K	CERAMIC	560PF	K		
C24			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C25			CC45FCH1H330J	CERAMIC	33PF	J		
C26			CC45FCH1H390J	CERAMIC	39PF	J		
C27			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C28			CE04KW1A101M	ELECTRO	100UF	10WV		
CN1			E40-4808-05	PIN ASSY				
CN2			E40-4294-05	FLAT CABLE CONNECTOR				
L1			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)				
L2			L40-1091-17	SMALL FIXED INDUCTOR				
X2			L77-2200-05	CRYSTAL RESONATOR(4.332MHZ)				
D8			HSS104A	DIODE				
D8			1SS131	DIODE				
IC2			SAA6579	ANALOGUE IC				

BUFFER (X13-7562-70)

C1 ,2			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C3 -6			CC45FSL1H101J	CERAMIC	100PF	J		
C7			CQ93FMG1H103J	MYLAR	0.010UF	J		
C8			CQ93FMG1H102J	MYLAR	1000PF	J		
C9 ,10			CC45FSL1H101J	CERAMIC	100PF	J		
C11			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C12			CC45FSL1H101J	CERAMIC	100PF	J		
C13			CK45FB1H102K	CERAMIC	1000PF	K		

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
CN1 -3			E40-8180-05	SOCKET FOR PIN ASSY		
IC1 ,2			NJM4565D-D	IC(OP AMP X2)		
DISPLAY (X14-4372-71)						
D1 -10			B30-2508-05	LED(AMBER,D=3,P=2)		
D11 ,12			B30-2519-05	LED(INFRARED,D=5,)		
D13			B30-2493-05	LED(RED)		
D24 ,25			B30-2519-05	LED(INFRARED,D=5,)		
C1 ,2			CE04KW1A101M	ELECTRO 100UF 10WV		
C20			CC73FSL1H331J	CHIP C 330PF J		
C21 -29			CC73FSL1H470J	CHIP C 47PF J		
C30			CC73FSL1H331J	CHIP C 330PF J		
CN1			E40-4946-05	FLAT CABLE CONNECTOR		
CN2			E40-4956-05	FLAT CABLE CONNECTOR		
CN5			E40-4609-05	PIN ASSY		
R1			RD14NB2E470J	RD 47 J 1/4W		
R21			RK73FB2A1R0J	CHIP R 1 J 1/10W		
R28			RK73FB2A1R0J	CHIP R 1 J 1/10W		
R50 -76			RK73FB2A104J	CHIP R 100K J 1/10W		
R77			RK73FB2A102J	CHIP R 1.0K J 1/10W		
R78			RK73FB2A103J	CHIP R 10K J 1/10W		
R91 -94			RK73FB2A1R0J	CHIP R 1 J 1/10W		
W100-107			R92-0670-05	CHIP R 0 OHM		
S1 -16			S70-0031-05	TACT SWITCH		
S18 -24			S70-0031-05	TACT SWITCH		
S30			T99-0559-05	ROTARY ENCODER		
ED1			20U64100SA	FLUORESCENT INDICATOR TUBE		
Q1			2SC3246(J,K)	TRANSISTOR		
Q2			2SC2003(L,K)	TRANSISTOR		
Q5 -14			DTA113ZUA	DIGITAL TRANSISTOR		
Q5 -14			UN5119	DIGITAL TRANSISTOR		
Q15			2SA1576A(R,S)	TRANSISTOR		
Q15			2SA1586(Y,GR)	TRANSISTOR		
Q16 -31			DTA113ZUA	DIGITAL TRANSISTOR		
Q16 -31			UN5119	DIGITAL TRANSISTOR		
Q32			2SC3246(J,K)	TRANSISTOR		
A1			W02-2598-05	OPTIC RECEIVING MODULE		

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HOW TO READ THE PARTS LIST
Destination column has the abbreviation for sale country and model.
Alphabets mean the country. Numerals do the model.
Example: T2 shows C-V301 for England market.
"T" does all models for U.K.

ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTNATIONS

MODEL	*CNT*	*Australia*	*Canada*	*China*	*England*	*Europe*	*Germany*	*Korea*	*Malaysia*
	ABB.	X	P	C	T	E	G	H	I
C-V301	-	-	-	-	T2	E1	-	-	-
C-V351	-	-	-	-	T1	E	-	-	-

MODEL	*CNT*	*Mexico*	*PX/AAFES*	*Russia*	*Scandinavia*	*Shanghai*	*USA*	*Other area*	*Other area(M2)*
	ABB.	R	Y	Q	L	V	K	M	M2
C-V301	-	-	-	-	-	-	-	-	-
C-V351	-	-	-	-	-	-	-	-	-

C-V301/V351

SPECIFICATIONS

Audio section

Total harmonic distortion (1 kHz, 1V) ..... 0.01 %
Signal to noise ratio (IHF'66)
CD ..... 93 dB
Input sensitivity / impedance
CD ..... 200 mV / 47kΩ
Tone controls
BASS ..... ± 8 dB (at 100 Hz)
TREBLE ..... ± 8 dB (at 10 kHz)
Output level / impedance
TAPE REC ..... 200 mV / 1 kΩ

Video section

VIDEO inputs / outputs
(composite) ..... 1 Vp-p/75 Ω

FM Tuner section

Tuning frequency range ..... 87.5 MHz~108 MHz
Usable sensitivity (DIN)
MONO ..... 1.2 μV (at 75 Ω) / 13.2 dBf
(40 kHz dev., S/N 26 dB)
STEREO ..... 35 μV (at 75 Ω) / 42 dBf
(46 kHz dev., S/N 46 dB)
Signal to noise ratio (DIN weighted at 1 kHz, 40 kHz dev.)
MONO ..... 65 dB (65.2 dBf input)
STEREO ..... 60 dB (65.2 dBf input)
Selectivity (DIN ± 300 kHz) ..... 64 dB
Stereo separation (DIN, 1 kHz) ..... 36 dB
Frequency response ..... 30 Hz~15 kHz, + 0.5 dB, – 3.0 dB

MW Tuner section

Tuning frequency range ..... 531 kHz ~ 1,602 kHz
Usable sensitivity
(30% mod., S/N 20 dB) ..... 20 μV / (700 μV / m)
Signal to noise ratio
(at 30% mod. 1mV input) ..... 48 dB

LW Tuner section (U.K. only)

Tuning frequency range ..... 153 kHz ~ 279 kHz
Usable sensitivity
(30% mod., S/N 20 dB) ..... 35 μV
Signal to noise ratio
(at 30% mod. 1mV input) ..... 45 dB

General

Power consumption ..... 25 W
⚠ AC outlet
UN SWITCHED ..... 2: (Total 100 W max)
Dimensions ..... W: 400 mm
H: 105 mm
D: 382 mm
Weight (net) ..... 5.2 kg

Notes

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Full performance may not be exhibited in extremely cold locations (below 0 deg.C).

Note:
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION
14-6,Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150-8501 Japan

KENWOOD SERVICE CORPORATION
P.O BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.
6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.
P.O BOX 55-2791, Piso 6 plaza Chase, Cl. 47 y Aquilino de la Guardia Panama, Republic de Panama

KENWOOD ELECTRONICS BRASIL LTDA.
Av. Moema, 170-17°, Andar-Cobertura "B", Ed. Maximum Service Center, 04077-020 Moema, São Paulo-SP-Brasil

KENWOOD ELECTRONICS U.K. LIMITED
KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB., United Kingdom

KENWOOD ELECTRONICS BELGUM N.V.
Meachelsesteenweg 418, B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH
Rembrücker Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.
13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.
Via G. Sirtori, 7/9 20129, Milano, Italy

KENWOOD IBÉRICA S.A.
Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.
(A.C.N. 001499 074)
P.O Box 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD ELECTRONICS (HONG KONG) LTD.
Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T., Hong Kong

KENWOOD ELECTRONICS GULF FZE
P.O.Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS SINGAPORE PTE LTD.
No. 1 Genting Lane #02-02, KENWOOD Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD.
#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1 46300 Petaling Jaya Selangor Darul Ehsan Malaysia

KENWOOD ELECTRONICS (THAILAND) CO., LTD.
2019 New Pechburi Road, Bangkapi, Huaykwang, Bangkok, 10320 Thailand